EXHIBIT 57

Page 1

IN THE UNITED STATES DISTRICT COURT

FOR THE DISTRICT OF NEW JERSEY

----x

IN RE: JOHNSON & JOHNSON TALCUM

POWDER PRODUCTS MARKETING, SALES

PRACTICES, AND PRODUCTS MDL NO:

LIABILITY LITIGATION 16-2738 (FLW)(LHG)

-----x

THIS DOCUMENT RELATES TO

ALL CASES

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VIDEOTAPED DEPOSITION UNDER ORAL EXAMINATION OF SONAL SINGH, M.D., M.P.H.

January 16, 2019, 9:07 a.m.

- - -

REPORTED BY: JANET M. SAMBATARO, RMR, CRR, CLR

- - -

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1	1490 2	-	
1		1	APPEARANCES: (Continued)
2		2	TUCKER ELLIS
3 4		3	
5		4 5	BY: MICHAEL C. ZELLERS, ESQ.
6	Deposition of SONAL SINGH, M.D., M.P.H.,	6	515 South Flower Street
7	held at the Beechwood Hotel, 363 Plantation Street,	7	Los Angeles, California 90071 (213) 430-3400
8	Worcester, Massachusetts, pursuant to Agreement	8	michael.zellers@tuckerellis.com
9	before Janet Sambataro, a Registered Merit Reporter,	9	Representing the Defendant, Johnson & Johnson,
10	Certified Realtime Reporter, Certified LiveNote	10	Johnson & Johnson Consumer Companies, Inc.
11	Reporter, and a Notary Public within and for the	11	Johnson & Johnson Consumer Companies, Inc.
12	Commonwealth of Massachusetts, on January 16, 2019,	12	
13	commencing at 9:07 a.m.	13	
14	commencing at 7.07 a.m.	14	DRINKER BIDDLE AND REATH, LLP
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19		19	katherine.mcbeth@dbr.com
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21		21	Johnson & Johnson Consumer Companies, Inc.
22		22	tompon & tompon consumer companies, me.
23		23	
24		24	- Continued -
25		25	
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1	APPEARANCES:	1	APPEARANCES: (Continued)
2	THE LET HAVE CELS.	2	GORDON & REES
3	ASHCRAFT & GEREL, LLP	3	BY: MICHAEL R. KLATT, ESQUIRE
4	BY: MICHELLE A. PARFITT, ESQ.	4	816 Congress Avenue, Suite 1510
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6	Alexandria, Virginia 22311	6	(512) 391-0197
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			Representing the Detendants,
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8	mparfitt@ashcraftlaw.com Representing the Plaintiffs	8 9	Imerys Talc America, Inc.
8 9 10	mpartitt@ashcraftlaw.com Representing the Plaintiffs		Imerys Talc America, Inc.
9		9	
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9 10 11 12 13	Representing the Plaintiffs LEVIN PAPANTONIO BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street	9 10 11 12 13 14	Imerys Talc America, Inc. COUGHLIN DUFFY LLP BY: MARYAM M. MESEHA, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962
9 10 11 12 13 14	Representing the Plaintiffs LEVIN PAPANTONIO BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502	9 10 11 12 13 14	Imerys Talc America, Inc. COUGHLIN DUFFY LLP BY: MARYAM M. MESEHA, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058
9 10 11 12 13 14 15	Representing the Plaintiffs LEVIN PAPANTONIO BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502 (850) 435-7000	9 10 11 12 13 14	Imerys Talc America, Inc. COUGHLIN DUFFY LLP BY: MARYAM M. MESEHA, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 mmeseha@coughlinduffy.com
9 10 11 12 13 14 15 16	Representing the Plaintiffs LEVIN PAPANTONIO BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502 (850) 435-7000 ctisi@levinlaw.com	9 10 11 12 13 14 15	Imerys Talc America, Inc. COUGHLIN DUFFY LLP BY: MARYAM M. MESEHA, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 mmeseha@coughlinduffy.com
9 10 11 12 13 14 15 16 17	Representing the Plaintiffs LEVIN PAPANTONIO BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502 (850) 435-7000 ctisi@levinlaw.com	9 10 11 12 13 14 15 16 17	Imerys Talc America, Inc. COUGHLIN DUFFY LLP BY: MARYAM M. MESEHA, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 mmeseha@coughlinduffy.com Representing Imerys Talc America, Inc.
9 10 11 12 13 14 15 16 17	Representing the Plaintiffs LEVIN PAPANTONIO BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502 (850) 435-7000 ctisi@levinlaw.com Representing the Plaintiffs	9 10 11 12 13 14 15 16 17	Imerys Talc America, Inc. COUGHLIN DUFFY LLP BY: MARYAM M. MESEHA, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 mmeseha@coughlinduffy.com Representing Imerys Talc America, Inc. TUCKER ELLIS BY: JAMES W. MIZGALA, ESQ. 233 South Wacker Drive
9 10 11 12 13 14 15 16 17 18	Representing the Plaintiffs LEVIN PAPANTONIO BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502 (850) 435-7000 ctisi@levinlaw.com Representing the Plaintiffs RESTAINO LAW LLC	9 10 11 12 13 14 15 16 17 18	Imerys Talc America, Inc. COUGHLIN DUFFY LLP BY: MARYAM M. MESEHA, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 mmeseha@coughlinduffy.com Representing Imerys Talc America, Inc. TUCKER ELLIS BY: JAMES W. MIZGALA, ESQ.
9 10 11 12 13 14 15 16 17 18 19 20	Representing the Plaintiffs LEVIN PAPANTONIO BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502 (850) 435-7000 ctisi@levinlaw.com Representing the Plaintiffs RESTAINO LAW LLC BY: JOHN RESTAINO, ESQ.	9 10 11 12 13 14 15 16 17 18 19 20 21 22	Imerys Talc America, Inc. COUGHLIN DUFFY LLP BY: MARYAM M. MESEHA, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 mmeseha@coughlinduffy.com Representing Imerys Talc America, Inc. TUCKER ELLIS BY: JAMES W. MIZGALA, ESQ. 233 South Wacker Drive
9 10 11 12 13 14 15 16 17 18 19 20 21	Representing the Plaintiffs LEVIN PAPANTONIO BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502 (850) 435-7000 ctisi@levinlaw.com Representing the Plaintiffs RESTAINO LAW LLC BY: JOHN RESTAINO, ESQ. 130 Forest Street Denver, Colorado 80220 (303) 839-8000	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Imerys Talc America, Inc. COUGHLIN DUFFY LLP BY: MARYAM M. MESEHA, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 mmeseha@coughlinduffy.com Representing Imerys Talc America, Inc. TUCKER ELLIS BY: JAMES W. MIZGALA, ESQ. 233 South Wacker Drive Chicago, Illinois 60606 (312) 624-6300 james.mizgala@tuckerellis.com
9 10 11 12 13 14 15 16 17 18 19 20 21 22	Representing the Plaintiffs LEVIN PAPANTONIO BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502 (850) 435-7000 ctisi@levinlaw.com Representing the Plaintiffs RESTAINO LAW LLC BY: JOHN RESTAINO, ESQ. 130 Forest Street Denver, Colorado 80220	9 10 11 12 13 14 15 16 17 18 19 20 21 22	Imerys Talc America, Inc. COUGHLIN DUFFY LLP BY: MARYAM M. MESEHA, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 mmeseha@coughlinduffy.com Representing Imerys Talc America, Inc. TUCKER ELLIS BY: JAMES W. MIZGALA, ESQ. 233 South Wacker Drive Chicago, Illinois 60606 (312) 624-6300

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1	APPEARANCES: (Continued)	1	EXHIBITS
2		2	Number Description Page
3	SEYFARTH SHAW LLP	3	Exhibit 11 Letter dated June 1, 2015 21
4	BY: THOMAS T. LOCKE, ESQ.	4	Exhibit 12 Email string with top e-mail
5	975 F Street, N.W.	5	dated December 27, 2018 23
6	Washington, D.C. 20004	6	Exhibit 13 Invoices from Dr. Singh 25
7	(202) 463-2400	7	Exhibit 14 Plaintiffs' Steering Committee's
8	Representing PCPC	8	Response and Objections to the
9	representing 1 Cr C	9	Notice of Oral and Videotaped
10	ALSO PRESENT:	10	Deposition of Sonal Singh and
11	Jody Urbati, Videographer	11	Duces Tecum 28
12	Jody Cloud, Videographer	12	Exhibit 15 Article entitled "Ovarian,
13		13	Fallopian Tube, and Primary
14		14	Peritoneal Cancer Prevention
15		15	(PDQ) - Health Professional
16		16	Version 89
17		17	Exhibit 16 Document entitled "Health Canada
18		18	Decision-Making Framework for
19		19	Identifying, Assessing, and
20		20	Managing Health Risks -
21		21	August 1, 2000" 101
22		22	Exhibit 17 Document entitled "Systematic
23		23	Review and Meta-Analysis of the
24		24	Association between Perineal Use
25		25	
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1	INDEX	1	EXHIBITS
2	WITNESS DIRECT CROSS REDIRECT	2	Number Description Page
3	SONAL SINGH, M.D., M.P.H.	3	Exhibit 17 (Continued)
4	By Mr. Zellers 11	4	of Talc and Risk of Ovarian
5	By Mr. Klatt 301	5	Cancer" 109
6	By Mr. Locke 337	6	Exhibit 18 Printout entitled "Ovarian
7	EXHIBITS	7	Cancer: Risk Factors" 120
8	Number Description Page	8	Exhibit 19 Letter dated April 1, 2014 129
9	Exhibit 1 Notice of Oral and	9	Exhibit 20 IARC Classifications 133
10	Videotaped Deposition of	10	Exhibit 21 Article entitled "Perineal use of
11	Sonal Singh and Duces Tecum 13	11	talc and risk of ovarian cancer" 143
12	Exhibit 2 Rule 26 Expert Report of	12	Exhibit 22 Article entitled "Genital use of
13	Sonal Singh, MD, MPH 14	13	talc and risk of ovarian cancer:
14	Exhibit 3 Sonal Singh, MD, MPH, FACP,	14	a meta-analysis" 157
15	curriculum vitae 16	15	Exhibit 23 Article entitled "Perineal Talc
16	Exhibit 4 List of references 17	16	Use and Ovarian Cancer, A Systematic
17	Exhibit 5 Additional Materials and	17	Review and Meta-Analysis" 172
18	Data Considered 17	18	Exhibit 24 Article entitled "The Association
19	Exhibit 6 Updated Materials List 18	19	Between Talc Use and Ovarian Cancer,
20	Exhibit 7 List of Trial Testimony 18	20	A Retrospective Case-Control Study
21	Exhibit 8 List of Expert Deposition 19	21	in Two US States" 179
22	Exhibit 9 Table 1 AMSTAR 20	22	Exhibit 25 Article entitled "Tubal Ligation
23	Exhibit 10 Rule 26 Expert Report of	23	Induces Quiescence in the Epithelia
24	Sonal Singh, MD, MPH, with	24	of the Fallopian Tube Fimbria" 206
25	attachments 21	25	- Continued -

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1	EXHIBITS	1	deposition as an expert for the plaintiffs in the
2	Number Description Page	2	Talc MDL; is that correct?
3	Exhibit 26 Article entitled "New Insights	3	A. Yes.
4	into the Pathogenesis of Ovarian	4	Q. You are familiar with depositions?
5	Cancer: Oxidative Stress" 228	5	A. Yes.
6	Exhibit 27 Federal Register, Vol. 81,	6	Q. You've given a number of depositions in
7	No. 243 233	7	your career?
8	Exhibit 28 Document entitled "Interpretation	8	A. I don't know about a number. Yes, I
9	of Epidemiologic Studies on Talc	9	have.
10	and Ovarian Cancer" 244	10	Q. Can you estimate for us the number of
11	Exhibit 29 Article entitled "Association	11	depositions that you've given?
12	between Body Powder Use and Ovarian	12	A. I think I've provided that list in the
13	Cancer: The African American	13	last five years.
14	Cancer Epidemiology Study (AACES) 261	14	Q. I understand. My question is a little
15	Exhibit 30 Article entitled "Does Exposure to	15	different.
16	Asbestos Cause Ovarian Cancer?	16	How many have you given in your career?
17	A Systematic Literature Review and	17	A. I can't tell you in my career. Maybe
18	Meta-analysis" 289	18	ten. Approximately.
19	Exhibit 31 Article entitled "Occupational	19	Q. Have you ever testified at trial?
20	Exposure to Asbestos and Ovarian	20	A. No.
21	Cancer: A Meta-analysis" 293	21	Q. You understand today that I'm going to
22	Exhibit 32 Chart 316	22	ask you a number of questions and other counsel
23		23	may as well; correct?
24		24	A. Yes.
25		25	Q. Please don't answer any question that
	Page 11		Page 13
1	PROCEEDINGS	1	you don't understand.
2	THE VIDEOGRAPHER: We are now on the	2	Can you do that?
3	record. My name is Jody Urbati. I am a	3	A. Yes.
4	videographer for Golkow Litigation Services.	4	Q. If you don't understand a question, let
5	Today's date is January 16, 2019, and the time is	5	me know, and I'll repeat the question or rephrase
6	9:07 a.m.	6	it, so that we can make it clear to you.
7	This video deposition is being held in	7	Can you do that?
8	Worcester, Massachusetts, in the matter of Talcum	8	A. Yes.
9	Powder Litigation, MDL No. 2738, for the United	9	Q. If you answer a question that I ask,
10	States District Court, District of New Jersey.	10	then I'm going to assume that you understood it.
11	The deponent today is Sonal Singh,	11	Is that fair?
12	M.D., M.P.H.	12	A. Yes.
13	Counsel will be noted on the	13	Q. You are here today pursuant to a Notice
14	stenographic record.	14	of Deposition, which we have marked as Exhibit 1.
15	The court reporter is Janet Sambataro	15	(Notice of Oral and Videotaped
16	and will now swear in the witness.	16	Deposition of Sonal Singh and Duces Tecum
17	SONAL SINGH, M.D., M.P.H.,	17	marked Exhibit 1.)
18	having been duly sworn, after presenting	18	BY MR. ZELLERS:
19	identification in the form of a driver's license,	19	Q. Is that correct?
20	deposes and says as follows:	20	A. Yes.
21	DIRECT EXAMINATION	21	MR. ZELLERS: Katherine, when I mark an
22	BY MR. ZELLERS:	22	exhibit, I'm going to need to hand them to you.
23	Q. State your name, please.	23	MS. MCBETH: Sure.
24	A. Sonal Singh.	24	MR. ZELLERS: Thank you.
25	Q. Dr. Singh, we are here to take your	25	

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1	BY MR. ZELLERS:	1	A. Yes.
2		2	
3	Q. Did you have an opportunity to review Deposition Exhibit 1 before today's deposition?	3	Q. If at any time today you need to look at any of those documents, they're available, and
4	A. Yes.	4	you're free to do that. Understood?
5	Q. Have you brought with you or provided	5	A. It is understood.
6	to counsel for production all materials in your	6	Q. You had attached or provided with your
7	possession that are responsive to the Notice of	7	report a curriculum vitae, which I understand has
8	Deposition?	8	been updated; is that right?
9	A. I have.	9	A. Yes.
10	MR. ZELLERS: I will mark, as	10	MR. ZELLERS: We will mark your updated
11	Deposition Exhibit 2, your report in this matter	11	CV or curriculum vitae as Deposition Exhibit 3.
12	dated November 16 of 2018.	12	(Sonal Singh, MD, MPH, FACP,
13	(Rule 26 Expert Report of Sonal	13	curriculum vitae marked Exhibit 3.)
14	Singh, MD, MPH marked Exhibit 2.)	14	MR. ZELLERS: Folks, I believe that
15	BY MR. ZELLERS:	15	Ms. Parfitt has distributed to you, before the
16	Q. Is that correct?	16	deposition, Exhibit 3.
17	A. It is. It doesn't have the references.	17	BY MR. ZELLERS:
18	Q. Deposition Exhibit 2 is just a copy of	18	Q. Can you tell us, just briefly, in what
19	your report itself. It ends at Page 66.	19	respect has Exhibit 3 been updated from the CV
20	Attached to your report were some additional	20	that was produced with your report in this
21	materials; is that right?	21	matter?
22	A. Yeah. Yeah. I just want to make sure	22	A. A few publications, and then I was
23	because when I refer to the report, I understand	23	elected to the fellowship of the American College
24	it to include references and tables and so on.	24	of Physicians on January 1st. So I'm an FACP,
25	Q. Your report includes everything that	25	and, yes, just a couple of publications,
			, y, y
	Page 15		Page 17
1	Page 15	1	Page 17
1	was produced by plaintiffs' counsel as part of	1 2	presentations.
2	was produced by plaintiffs' counsel as part of that report; is that right?	2	presentations. Q. Is the curriculum vitae that we have
2	was produced by plaintiffs' counsel as part of that report; is that right? And, Dr. Singh, I'm going to mark separately	2	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to
2 3 4	was produced by plaintiffs' counsel as part of that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments	2 3 4	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date?
2 3 4 5	was produced by plaintiffs' counsel as part of that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay.	2 3 4 5	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes.
2 3 4 5 6	was produced by plaintiffs' counsel as part of that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just	2 3 4 5 6	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019?
2 3 4 5 6 7	was produced by plaintiffs' counsel as part of that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report	2 3 4 5 6 7	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah.
2 3 4 5 6 7 8	was produced by plaintiffs' counsel as part of that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah.	2 3 4 5 6 7 8	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or
2 3 4 5 6 7 8 9	was produced by plaintiffs' counsel as part of that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked	2 3 4 5 6 7 8 9	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV?
2 3 4 5 6 7 8 9	was produced by plaintiffs' counsel as part of that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2?	2 3 4 5 6 7 8 9	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No.
2 3 4 5 6 7 8 9 10	was produced by plaintiffs' counsel as part of that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may,	2 3 4 5 6 7 8 9 10	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is
2 3 4 5 6 7 8 9 10 11	was produced by plaintiffs' counsel as part of that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report,	2 3 4 5 6 7 8 9 10 11	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And
2 3 4 5 6 7 8 9 10 11 12 13	was produced by plaintiffs' counsel as part of that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report	2 3 4 5 6 7 8 9 10	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And that goes from Page 67 to Page 75.
2 3 4 5 6 7 8 9 10 11 12 13 14	was produced by plaintiffs' counsel as part of that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report plus all of its attachments.	2 3 4 5 6 7 8 9 10 11 12 13	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And
2 3 4 5 6 7 8 9 10 11 12 13 14 15	was produced by plaintiffs' counsel as part of that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report plus all of its attachments. So just so the record is clear, but I	2 3 4 5 6 7 8 9 10 11 12	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And that goes from Page 67 to Page 75. Q. Is that correct? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	was produced by plaintiffs' counsel as part of that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report plus all of its attachments. So just so the record is clear, but I understand how you'd like to conduct it, and	2 3 4 5 6 7 8 9 10 11 12 13 14 15	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And that goes from Page 67 to Page 75. Q. Is that correct? A. Yes. (List of references marked
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	was produced by plaintiffs' counsel as part of that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report plus all of its attachments. So just so the record is clear, but I understand how you'd like to conduct it, and that's fine.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And that goes from Page 67 to Page 75. Q. Is that correct? A. Yes. (List of references marked Exhibit 4.)
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	was produced by plaintiffs' counsel as part of that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report plus all of its attachments. So just so the record is clear, but I understand how you'd like to conduct it, and that's fine. MR. ZELLERS: Understood. BY MR. ZELLERS:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And that goes from Page 67 to Page 75. Q. Is that correct? A. Yes. (List of references marked Exhibit 4.) MR. ZELLERS: Deposition Exhibit 5 is also from your report, and it's a listing of
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	was produced by plaintiffs' counsel as part of that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report plus all of its attachments. So just so the record is clear, but I understand how you'd like to conduct it, and that's fine. MR. ZELLERS: Understood. BY MR. ZELLERS: Q. Your counsel today has provided us with two bankers boxes of your report, plus all of the references from the report. Is that correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And that goes from Page 67 to Page 75. Q. Is that correct? A. Yes. (List of references marked Exhibit 4.) MR. ZELLERS: Deposition Exhibit 5 is also from your report, and it's a listing of additional materials and data considered.
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	Page 18		Page 20
1	MR. ZELLERS: Deposition Exhibit 6 is	1	testimony list, several additional documents that
2	an updated list of materials that defendants were	2	counsel for plaintiffs has indicated are
3	provided on January 13th of 2019.	3	responsive to the deposition notice.
4	(Updated Materials List marked	4	Let me mark these. I have not had a chance
5	Exhibit 6.)	5	to look at them yet substantively.
6	BY MR. ZELLERS:	6	THE WITNESS: Sure.
7	Q. Is that correct?	7	MR. ZELLERS: But I will and may, at a
8	A. Yes.	8	later time today, have some questions for you.
9	MR. ZELLERS: Folks, I need one more of	9	THE WITNESS: Actually, I will say
10	those back. Can I get one more? Thank you.	10	there's a substantive document that's not here.
11	Deposition Exhibit 7 is a listing of	11	That's the table of rating that I created for the
12	the trial testimony and expert deposition	12	report, and that should be part of the report.
13	testimony that you have provided in the last five	13	MR. ZELLERS: Let me see if I can find
14	years.	14	that.
15	(List of Trial Testimony marked	15	BY MR. ZELLERS:
16	Exhibit 7.)	16	Q. It would be helpful to have that marked
17	BY MR. ZELLERS:	17	as well; is that right?
18	Q. Is that right?	18	A. Yes.
19	A. Yes. Actually, I have provided them an	19	MR. ZELLERS: I will mark, as
20	update, as well, of that. So I don't know if	20	Deposition Exhibit 9, the Amstar rating of
21	that was with you, but	21	reviews, Pages 77 and 78 from your full report.
22	Q. You have brought with you today an	22	(Table 1 AMSTAR marked
23	updated list of expert deposition testimony for	23	Exhibit 9.)
24 25	the last five years?	24 25	BY MR. ZELLERS:
	A. Yes. No. 7 is the update.	∠5	Q. Is that right?
	Page 19		Page 21
1	MR. ZELLERS: We will mark the updated	1	A. Thank you.
2	trial testimony list as Deposition Exhibit 8.	2	MR. TISI: That was No. 9?
3	(List of Expert Deposition	3	MR. ZELLERS: No. 9.
4	marked Exhibit 8.)	4	Let's go off the stenographic record.
5	MR. ZELLERS: And I understand that's	5	You can keep the video going.
6	out of order, but I premarked one other exhibit.	6	(Discussion off the stenographic record.)
7	BY MR. ZELLERS:	7	MR. ZELLERS: Let's go back on the
8	Q. What is the difference between	8	stenographic record here.
9	Deposition Exhibit 8, your updated list of	9	Doctor, counsel for plaintiffs have
10	deposition testimony, and Exhibit 6, which is the	10	requested, and I am agreeable to marking a
11	list of testimony you provided with your report	11	complete copy of your report, including all of
12	in November?	12	the reference list and other materials that we've
13	A. Yes. So there's an updated deposition	13	marked individually, so the complete copy of your
14	in a medical-legal case regarding standard of	14	report with all attachments, we will mark as
15	care.	15	Deposition Exhibit 10.
16	Q. You've added that	16	(Rule 26 Expert Report of Sonal
17	A. Yes.	17	Singh, MD, MPH, with attachments marked
18	Q to	18	Exhibit 10.)
19	A. No. 7.	19	BY MR. ZELLERS:
20	Q what we have marked as Deposition	20	Q. Have we, though, marked individually
21	Exhibit 8?	21	your complete record strike that. Have we marked individually your complete
\sim	A Vac it is		mave we marked individually your complete
22	A. Yes, it is.	22	
23	Q. In addition to the materials that we	23	report prior to marking Exhibit 10?

	Page 22		Page 24
1	marked Exhibit 11.)	1	A. Yes.
2	BY MR. ZELLERS:	2	MS. PARFITT: And for the record,
3	Q. The documents that were produced by	3	Mr. Zellers, and we can go ahead and redact the
4	counsel this morning, Deposition Exhibit 11, is a	4	copy later, but just so the record is clear, that
5	June 1st, 2015 letter with Janssen	5	communication at the top to me from Dr. Singh was
6	Pharmaceuticals at the top to you from a	6	simply, we asked him, do you have any
7	Dr. Zanca. Is that right?	7	communications, and then he sent it to me.
8	A. Yes.	8	MR. TISI: We'll redact the part with
9	Q. Is this inviting you to a program?	9	your agreement.
10	A. Yes. Consultation for a panel on	10	MR. ZELLERS: Yes. We can do that at a
11	products discussion manufactured by Johnson and	11	break
12	Janssen Pharmaceuticals.	12	MS. PARFITT: At a break.
13	Q. You're producing this in response to	13	MR. ZELLERS: or, you know, at the
14	the request asking for all communications between	14	conclusion
15	yourself and any Johnson & Johnson company; is	15	MS. PARFITT: I appreciate that. Thank
16	that right?	16	you.
17	A. That's what I understood it to be,	17	MR. ZELLERS: of the deposition.
18	but yeah.	18	BY MR. ZELLERS:
19	Q. You've gone and you've made a search,	19	Q. Do you strike that.
20	and in the search for additional records	20	The date of your e-mail at the bottom of
21	responsive to the Notice of Deposition, which we	21	Page 1 is December 13th of 2018; is that right?
22	marked as Exhibit 1, you have brought these	22	A. Yes.
23	additional documents that we're marking here; is	23	Q. You had been retained as an expert?
24	that correct?	24	A. Yes.
25	A. Well, I wouldn't say I made a search.	25	Q. And had submitted, in fact, your expert
	Page 23		Page 25
1	I sort of read it, you know, decided, okay, what	1	report that we have marked previously; is that
2	other additional things that are requested and,	2	right?
3	you know, recalled that I had had this	3	A. Yes.
4	interaction with Johnson & Johnson employees.	4	Q. In this communication, Exhibit 12, do
5	Q. Are you comfortable that you have	5	you at all identify yourself as a paid, retained
6	brought with you today all of the documents that	6	expert for the plaintiffs in the talc litigation?
7	are responsive to the Notice of Deposition?	7	A. No. This was just a communication
8	A. Yes.	8	about references, and I did not.
9	(Email string with top e-mail	9	MR. ZELLERS: Dr. Singh, the next set
10	dated December 27, 2018 marked Exhibit 12.)	10	of documents that you have brought with you and
11	MR. ZELLERS: All right.	11	that we will mark collectively as Exhibit 13 are
12	BY MR. ZELLERS:	12	your invoices.
13	Q. Deposition Exhibit 12 is an e-mail	13	(Invoices from Dr. Singh marked
14	string. The very last e-mail is from you to	14	Exhibit 13.)
15	well, it's to Michelle Parfitt. I'm assuming	15	BY MR. ZELLERS:
16	that you were forwarding to Ms. Parfitt just the	16	Q. The first invoice is dated July 14 of
17	e-mail below, which is from you to Mr. Restaino	17	2010. There's a total of five invoices.
18	and then, apparently, the substantive e-mail is	18	The last invoice is from July 11, 2018, to
	at the bottom of the first page of Exhibit 12.	19	November 19, 2018. Is that right?
19		20	A. It should be 2017, not 2010. I'm
19	And this is a communication a mail from you	_ ∪	
20	And this is a communication e-mail from you to Lee-May Chen and others: is that right?		sorry Vou mentioned 2010
20 21	to Lee-May Chen and others; is that right?	21	sorry. You mentioned 2010.
20 21 22	to Lee-May Chen and others; is that right? A. Yes.	21 22	Q. And the date is 2017?
20 21 22 23	to Lee-May Chen and others; is that right? A. Yes. Q. The subject is "Up-to-date references."	21 22 23	Q. And the date is 2017?A. Yeah. I wanted to correct that.
20 21 22	to Lee-May Chen and others; is that right? A. Yes.	21 22	Q. And the date is 2017?

	Page 26		Page 28
1	substantively, the invoices.	1	(Plaintiffs' Steering
2	A. Sure.	2	Committee's Response and Objections to the
3	Q. And I don't think we have a complete	3	Notice of Oral and Videotaped Deposition of
4	copy. I'm going to ask you some questions in a	4	Sonal Singh and Duces Tecum marked Exhibit
5	bit.	5	14.)
6	A. We do have a complete copy. I mean, in	6	MR. ZELLERS: Back on the stenographic
7	terms of	7	record.
8	Q. No. I understand that Exhibit 13 is a	8	Dr. Singh, at the request of
9	complete copy of your invoices.	9	plaintiffs' counsel, we will mark and
10	A. Yeah.	10	incorporate, as an Exhibit 14, the objections
11	Q. That you now have the copy in front of	11	that plaintiffs have filed to the deposition
12	you. I don't have the copy in front of me. Keep	12	notice.
13	it. I'll have some questions for you a bit	13	MS. PARFITT: Thank you.
14	later.	14	BY MR. ZELLERS:
15	Have we now marked all documents that are	15	Q. Have we identified and marked all of
16	responsive to the Notice of Deposition which you	16	the documents that you have produced pursuant to
17	have produced here today? And let me withdraw	17	the Notice of Deposition?
18	that.	18	A. We have.
19	Have we now marked all of the documents that	19	Q. To your knowledge, there are no
20	you have produced in response to the Notice of	20	additional documents that you have in your
21	Deposition?	21	possession to produce; is that right?
22	A. Yeah. And I think that, you know,	22	A. I don't have any additional documents.
23	there were some updated materials that I reviewed	23	Q. The report that we have marked as
24	that are part of this list.	24	Deposition Exhibit 10, does that contain all of
25	Q. All right. And we need to be more	25	the opinions that you intend to offer at trial?
	Page 27		Page 29
1		1	
1 2	specific	1 2	A. Actually, it's Deposition Exhibit 2.
2	specific A. Sure.	2	A. Actually, it's Deposition Exhibit 2.Q. I understand.
	specific A. Sure. Q as you understand from doing this		A. Actually, it's Deposition Exhibit 2.Q. I understand.A. Sorry. I'm a little confused here.
2 3 4	specific A. Sure. Q as you understand from doing this before.	2 3 4	A. Actually, it's Deposition Exhibit 2.Q. I understand.A. Sorry. I'm a little confused here.Q. That's fine. We don't want you to be
2 3 4 5	specific A. Sure. Q as you understand from doing this before. You are referring to the list of updated	2 3 4 5	 A. Actually, it's Deposition Exhibit 2. Q. I understand. A. Sorry. I'm a little confused here. Q. That's fine. We don't want you to be confused. And I asked you in the beginning to
2 3 4	specific A. Sure. Q as you understand from doing this before.	2 3 4	 A. Actually, it's Deposition Exhibit 2. Q. I understand. A. Sorry. I'm a little confused here. Q. That's fine. We don't want you to be confused. And I asked you in the beginning to tell me if you were getting confused.
2 3 4 5 6	specific A. Sure. Q as you understand from doing this before. You are referring to the list of updated materials that was produced about a week ago? A. Yeah.	2 3 4 5 6	 A. Actually, it's Deposition Exhibit 2. Q. I understand. A. Sorry. I'm a little confused here. Q. That's fine. We don't want you to be confused. And I asked you in the beginning to tell me if you were getting confused. We have marked Deposition Exhibit 10, which
2 3 4 5 6 7 8	specific A. Sure. Q as you understand from doing this before. You are referring to the list of updated materials that was produced about a week ago?	2 3 4 5 6 7 8	 A. Actually, it's Deposition Exhibit 2. Q. I understand. A. Sorry. I'm a little confused here. Q. That's fine. We don't want you to be confused. And I asked you in the beginning to tell me if you were getting confused. We have marked Deposition Exhibit 10, which contains all of the attachments
2 3 4 5 6 7	specific A. Sure. Q as you understand from doing this before. You are referring to the list of updated materials that was produced about a week ago? A. Yeah. Q. And that is Deposition Exhibit well, strike that.	2 3 4 5 6 7	 A. Actually, it's Deposition Exhibit 2. Q. I understand. A. Sorry. I'm a little confused here. Q. That's fine. We don't want you to be confused. And I asked you in the beginning to tell me if you were getting confused. We have marked Deposition Exhibit 10, which contains all of the attachments A. Okay.
2 3 4 5 6 7 8 9	specific A. Sure. Q as you understand from doing this before. You are referring to the list of updated materials that was produced about a week ago? A. Yeah. Q. And that is Deposition Exhibit well, strike that. Just for the record, it was produced on	2 3 4 5 6 7 8 9	 A. Actually, it's Deposition Exhibit 2. Q. I understand. A. Sorry. I'm a little confused here. Q. That's fine. We don't want you to be confused. And I asked you in the beginning to tell me if you were getting confused. We have marked Deposition Exhibit 10, which contains all of the attachments A. Okay. Q that we have separately marked; is
2 3 4 5 6 7 8 9	specific A. Sure. Q as you understand from doing this before. You are referring to the list of updated materials that was produced about a week ago? A. Yeah. Q. And that is Deposition Exhibit well, strike that. Just for the record, it was produced on January 13th of 2019. The updated materials that	2 3 4 5 6 7 8 9	 A. Actually, it's Deposition Exhibit 2. Q. I understand. A. Sorry. I'm a little confused here. Q. That's fine. We don't want you to be confused. And I asked you in the beginning to tell me if you were getting confused. We have marked Deposition Exhibit 10, which contains all of the attachments A. Okay.
2 3 4 5 6 7 8 9 10	specific A. Sure. Q as you understand from doing this before. You are referring to the list of updated materials that was produced about a week ago? A. Yeah. Q. And that is Deposition Exhibit well, strike that. Just for the record, it was produced on January 13th of 2019. The updated materials that you have reviewed are listed on Deposition	2 3 4 5 6 7 8 9 10	A. Actually, it's Deposition Exhibit 2. Q. I understand. A. Sorry. I'm a little confused here. Q. That's fine. We don't want you to be confused. And I asked you in the beginning to tell me if you were getting confused. We have marked Deposition Exhibit 10, which contains all of the attachments A. Okay. Q that we have separately marked; is that right? A. Yeah. Yeah.
2 3 4 5 6 7 8 9 10 11	specific A. Sure. Q as you understand from doing this before. You are referring to the list of updated materials that was produced about a week ago? A. Yeah. Q. And that is Deposition Exhibit well, strike that. Just for the record, it was produced on January 13th of 2019. The updated materials that you have reviewed are listed on Deposition Exhibit 6; is that right?	2 3 4 5 6 7 8 9 10 11	A. Actually, it's Deposition Exhibit 2. Q. I understand. A. Sorry. I'm a little confused here. Q. That's fine. We don't want you to be confused. And I asked you in the beginning to tell me if you were getting confused. We have marked Deposition Exhibit 10, which contains all of the attachments A. Okay. Q that we have separately marked; is that right? A. Yeah. Yeah. Q. All right. The substance of your
2 3 4 5 6 7 8 9 10 11 12 13	specific A. Sure. Q as you understand from doing this before. You are referring to the list of updated materials that was produced about a week ago? A. Yeah. Q. And that is Deposition Exhibit well, strike that. Just for the record, it was produced on January 13th of 2019. The updated materials that you have reviewed are listed on Deposition Exhibit 6; is that right? A. I have not reviewed these materials. I	2 3 4 5 6 7 8 9 10 11 12 13	A. Actually, it's Deposition Exhibit 2. Q. I understand. A. Sorry. I'm a little confused here. Q. That's fine. We don't want you to be confused. And I asked you in the beginning to tell me if you were getting confused. We have marked Deposition Exhibit 10, which contains all of the attachments A. Okay. Q that we have separately marked; is that right? A. Yeah. Yeah. Q. All right. The substance of your report in terms of your written opinions, we have
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Q. Does that report identify everything

that you are relying on in forming the opinions

Sonal Singh, M.D., M.P.H.

Page 30 Page 32 1 A. Science evolves, and, you know, we 1 that you intend to provide at any hearing or 2 update our opinions. So it's not like you offer 2 trial in this matter? 3 3 an updated opinion one day and that stays that A. No. I'm relying on additional evidence 4 4 since then that has become available on this. 5 Q. Dr. Singh, this is our opportunity to 5 Q. Let's -- I will ask you a new question. 6 6 ask you questions about the opinions that you Are all of the materials that you are 7 have formed in this matter. 7 relying on in forming the opinions that you 8 As of today, does your report, which we've 8 expect to testify to at any hearing or trial, 9 9 marked as Exhibit 2 and also -identified either in your report, which we have 10 MS. PARFITT: 10. 10 marked as Exhibit 10, or the updated list of 11 Q. -- Exhibit 10, does that include all 11 materials, which we have marked as Exhibit 6? 12 of the opinions that you intend to testify to at 12 A. Yes. MS. PARFITT: And 5. 13 any trial or hearing of this matter? 13 14 A. Yes. In terms of the causation 14 THE WITNESS: Okay. That's the part of 15 opinions, it does. But in terms of what 15 the whole report. 16 additional evidence has been reviewed or what 16 MR. ZELLERS: Yes. 17 additional evidence has come up that, you know, 17 BY MR. ZELLERS: 18 supports or refutes that, that might have Q. Exhibit 5 had previously been produced 18 19 19 as part of your report; is that right? changed. 20 Q. Dr. Singh, do you have any new or 20 A. Yes. 21 additional opinions today that you intend to 21 Q. Is your report accurate? 22 offer at any trial or hearing of this matter 22 A. Yes. 23 beyond the opinions that are included in your 23 Q. Is your report complete? 24 report which we've marked as Exhibit 2 and 24 A. Yes, it is. It has some typos, but... 25 Exhibit 10? 2.5 Q. As we go along, if there's a typo --Page 31 Page 33 1 1 A. I'm sorry. I'm just not -- it's not strike that. 2 2 like I don't want to answer. I'm trying to Are there any typos that are substantive understand. When you say "additional opinions," 3 3 typos? 4 does it just mean like a causal opinion or does 4 A. No. But sometimes it's we and they. I it mean --5 5 can point that out at some point in time. 6 Q. Dr. Singh, you have done this before; 6 Q. Are there any documents that were in 7 7 your possession that you produced to counsel right? 8 8 A. Yeah. I'm trying to understand and I'm responsive to the deposition notice that have not 9 trying to be responsive. 9 been produced here? 10 10 Q. This is the defense opportunity to ask A. No. Not that I can think of. you what opinions you intend to offer at any 11 11 Q. When were you first contacted by anyone 12 hearing or trial of this matter. 12 regarding the talc ovarian cancer litigation? 13 As of today, do you have any additional 13 A. So this was in 2017 by Attorney John opinions beyond the opinions that are set forth 14 14 Restaino and Attorney Parfitt. I don't know the in your report which you intend to offer at any exact day, but it has to be the, you know, spring 15 15 trial or hearing of this matter? or summer of 2017. Spring or summer. 16 16 17 A. I don't -- yeah -- I mean, it's, you 17 Q. Your invoice, your first invoice is 18 know, the opinions that I've offered are included 18 dated July of 2017; is that right? 19 in the report. 19 A. Yeah. But, you know, it just covers a period of background. It's not that they 20 Q. Does your report identify -- and by 20 21 "report," we can refer to the report that we've 21 contacted me and may have contacted me prior to 22 marked as Exhibit 10. 22 that. 23 23 A. Mm-hmm. Q. Sometime in the first part of 2017, you

9 (Pages 30 to 33)

were contacted by Mr. Restaino and by

Ms. Parfitt; is that right?

24

25

	Page 34		Page 36
1	A. Yes.	1	you asked to do?
2	Q. Anyone else?	2	A. So to clarify, I don't know I was
3	A. No.	3	retained at that time.
4	Q. What attorneys have you met with or	4	I was asked to consult on and provide, you
5	communicated with in the talc ovarian cancer	5	know, a review and look at look at the
6	litigation other than Ms. Parfitt and	6	literature on this topic. So I'm not sure
7	Mr. Restaino?	7	depending on semantics, you can define it as
8	A. So Attorney Chris Tisi, and then I have	8	being retained or, you know I don't think we
9	communicated on the phone with Attorney Gates.	9	had an "agreement," but I was asked to provide a
10	Is that no. Margaret?	10	consultation on that matter. And these invoices
11	Q. Margaret Thompson?	11	include that consult.
12	A. Thompson. Yeah.	12	Q. In the first part of 2017, what were
13	Q. Do you know Margaret Thompson?	13	you asked by counsel for plaintiffs in the talc
14	A. I mean, I know her as an attorney. I	14	litigation, ovarian cancer tale litigation, to
15	just spoke to her on the phone for 30 minutes.	15	do?
16	• •	16	
17	Q. Have you ever met in person with Ms. Thompson?	17	MS. PARFITT: Objection. Limit your response to communications with regard to simply
18	A. No.	18	
		19	the requests, not the conversations.
19 20	Q. Have you ever had any communications or interestions with Ms. Thompson other than the	20	A. Yeah. So I was asked to review, you
21	interactions with Ms. Thompson other than the	21	know, the literature on talcum powder products and ovarian cancer.
	30-minute-or-so phone call?	22	
22	A. No.		Q. Had you ever done that before?
23	Q. When was that conversation with	23	MS. PARFITT: Objection. Form.
24	Ms. Thompson?	24	A. I mean, when I say "review," yes, I had
25	A. I don't know. A couple of days ago.	25	read about talcum powder products and ovarian
	Page 35		Page 37
1	Page 35 Yeah.	1	Page 37 cancer.
2	Yeah. Q. It was in preparation for the	1 2	cancer. Q. You were asked to make a systematic
	Yeah. Q. It was in preparation for the deposition; is that right?		cancer. Q. You were asked to make a systematic review of the literature relating to talcum
2	Yeah. Q. It was in preparation for the	2	cancer. Q. You were asked to make a systematic
2 3 4 5	Yeah. Q. It was in preparation for the deposition; is that right? A. Yes. Q. How much time did you spend with the	2	cancer. Q. You were asked to make a systematic review of the literature relating to talcum
2 3 4	Yeah. Q. It was in preparation for the deposition; is that right? A. Yes. Q. How much time did you spend with the lawyers for plaintiffs preparing for this	2 3 4	cancer. Q. You were asked to make a systematic review of the literature relating to talcum powder products and ovarian cancer; is that
2 3 4 5	Yeah. Q. It was in preparation for the deposition; is that right? A. Yes. Q. How much time did you spend with the	2 3 4 5	cancer. Q. You were asked to make a systematic review of the literature relating to talcum powder products and ovarian cancer; is that right?
2 3 4 5 6	Yeah. Q. It was in preparation for the deposition; is that right? A. Yes. Q. How much time did you spend with the lawyers for plaintiffs preparing for this	2 3 4 5 6	cancer. Q. You were asked to make a systematic review of the literature relating to talcum powder products and ovarian cancer; is that right? A. Not necessarily a systematic review,
2 3 4 5 6 7	Yeah. Q. It was in preparation for the deposition; is that right? A. Yes. Q. How much time did you spend with the lawyers for plaintiffs preparing for this deposition?	2 3 4 5 6 7	cancer. Q. You were asked to make a systematic review of the literature relating to talcum powder products and ovarian cancer; is that right? A. Not necessarily a systematic review, but they asked me to, you know, review the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Yeah. Q. It was in preparation for the deposition; is that right? A. Yes. Q. How much time did you spend with the lawyers for plaintiffs preparing for this deposition? A. With the lawyers, I've spent yeah, I'd have to go back, maybe five or six hours. But, again, I can't be very precise. Q. Any other attorneys that you've communicated with that you understand to represent the plaintiffs other than the attorneys that you have identified? A. No. Not that I can recall. Q. Do you understand that you are or strike that have been retained as an expert by plaintiffs in the MDL talc ovarian cancer litigation? A. Right now, I do. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	cancer. Q. You were asked to make a systematic review of the literature relating to talcum powder products and ovarian cancer; is that right? A. Not necessarily a systematic review, but they asked me to, you know, review the literature, and I had been reading it from other from my own reading in different journals, and they asked me to, you know, review and, you know, provide my own opinion on that matter. Q. At some point, you were retained, agreed A. Yes. Q to work with the attorneys for plaintiffs; is that right? A. Yes. MS. PARFITT: Objection. Form. Q. Were you ever given any new or
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Yeah. Q. It was in preparation for the deposition; is that right? A. Yes. Q. How much time did you spend with the lawyers for plaintiffs preparing for this deposition? A. With the lawyers, I've spent yeah, I'd have to go back, maybe five or six hours. But, again, I can't be very precise. Q. Any other attorneys that you've communicated with that you understand to represent the plaintiffs other than the attorneys that you have identified? A. No. Not that I can recall. Q. Do you understand that you are or strike that have been retained as an expert by plaintiffs in the MDL talc ovarian cancer litigation? A. Right now, I do. Yes. Q. Is there any other ovarian cancer litigation matter that you have been retained in?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	cancer. Q. You were asked to make a systematic review of the literature relating to talcum powder products and ovarian cancer; is that right? A. Not necessarily a systematic review, but they asked me to, you know, review the literature, and I had been reading it from other from my own reading in different journals, and they asked me to, you know, review and, you know, provide my own opinion on that matter. Q. At some point, you were retained, agreed A. Yes. Q to work with the attorneys for plaintiffs; is that right? A. Yes. MS. PARFITT: Objection. Form. Q. Were you ever given any new or additional assignment in the MDL talc ovarian cancer litigation other than to do a literature
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Yeah. Q. It was in preparation for the deposition; is that right? A. Yes. Q. How much time did you spend with the lawyers for plaintiffs preparing for this deposition? A. With the lawyers, I've spent yeah, I'd have to go back, maybe five or six hours. But, again, I can't be very precise. Q. Any other attorneys that you've communicated with that you understand to represent the plaintiffs other than the attorneys that you have identified? A. No. Not that I can recall. Q. Do you understand that you are or strike that have been retained as an expert by plaintiffs in the MDL talc ovarian cancer litigation? A. Right now, I do. Yes. Q. Is there any other ovarian cancer litigation matter that you have been retained in? A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	cancer. Q. You were asked to make a systematic review of the literature relating to talcum powder products and ovarian cancer; is that right? A. Not necessarily a systematic review, but they asked me to, you know, review the literature, and I had been reading it from other from my own reading in different journals, and they asked me to, you know, review and, you know, provide my own opinion on that matter. Q. At some point, you were retained, agreed A. Yes. Q to work with the attorneys for plaintiffs; is that right? A. Yes. MS. PARFITT: Objection. Form. Q. Were you ever given any new or additional assignment in the MDL talc ovarian cancer litigation other than to do a literature review?

	Page 20		Page 40
-	Page 38	-	Page 40
1	asking the causal question that is the use of	1	that right?
2	talcum powder products a cause of ovarian cancer.	2	A. Yes.
3	Q. You looked at the literature	3	Q. How much are you charging per hour for
4	A. Mm-hmm.	4	your time in this case?
5	Q to try to determine if you could	5	A. \$600 an hour.
6	answer that question; is that right?	6	Q. You have invoices in front of you.
7	A. Yeah. So we looked at I looked at	7	What is the total value of the time that
8	the literature and, you know, obviously, looked	8	you've spent on the talc ovarian cancer
9	at other documents and performed a methodology,	9	litigation, whether that's been billed or not
10	and we can discuss that in detail later.	10	billed, paid or not paid?
11	But the primary question of interest is	11	A. I can't calculate the time. I can
12	was, is the use of perineal use of talcum powder	12	calculate
13	products associated with and causally related to	13	Q. Can you estimate it for us?
14	the development of ovarian cancer.	14	A. I don't want to give a number that's
15	Q. That has been the request from	15	inaccurate; right? I mean, these are accurate
16	plaintiffs' counsel to you in terms of providing	16	numbers. But I will just have to sum it up
17	expert opinions in this matter; is that right?	17	Q. Let's try to do this as quickly as we
18	A. Yes.	18	can.
19	Q. When were you first asked to prepare a	19	A. Yeah.
20	report setting forth your opinions?	20	Q. The five invoices that you've marked
21	A. Again, I can't recall the specific	21	or strike that that we have marked as
22	timelines. I'm sorry. It's been a while.	22	Deposition Exhibit 13
23	Q. Were you asked by plaintiffs to assume	23	A. Mm-hmm.
24	any facts?	24	Q does that capture all of your time
25	A. No. I mean, at that time, you know,	25	on the ovarian cancer talc litigation through
	Page 39		Page 41
1	and even prior to that, I was reading the	1	Page 41 November of last year?
1 2		1 2	
	and even prior to that, I was reading the		November of last year?
2	and even prior to that, I was reading the literature. I was, you know, agnostic to it.	2	November of last year? A. Yes.
2 3	and even prior to that, I was reading the literature. I was, you know, agnostic to it. And, yeah, I didn't in fact, I didn't	2	November of last year? A. Yes. Q. Is there any additional time that you
2 3 4	and even prior to that, I was reading the literature. I was, you know, agnostic to it. And, yeah, I didn't in fact, I didn't form an opinion on this topic until until the	2 3 4	November of last year? A. Yes. Q. Is there any additional time that you have spent on the talcum powder litigation up
2 3 4 5	and even prior to that, I was reading the literature. I was, you know, agnostic to it. And, yeah, I didn't in fact, I didn't form an opinion on this topic until until the very end of, you know, 2018.	2 3 4 5	November of last year? A. Yes. Q. Is there any additional time that you have spent on the talcum powder litigation up through November of last year that's not
2 3 4 5 6	and even prior to that, I was reading the literature. I was, you know, agnostic to it. And, yeah, I didn't in fact, I didn't form an opinion on this topic until until the very end of, you know, 2018. Q. When you say you were "agnostic"	2 3 4 5 6	November of last year? A. Yes. Q. Is there any additional time that you have spent on the talcum powder litigation up through November of last year that's not reflected in the invoices we've marked as
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2 3 4 5 6 7 8	and even prior to that, I was reading the literature. I was, you know, agnostic to it. And, yeah, I didn't in fact, I didn't form an opinion on this topic until until the very end of, you know, 2018. Q. When you say you were "agnostic" A. Mm-hmm. Q to this issue, whether or not	2 3 4 5 6 7 8	November of last year? A. Yes. Q. Is there any additional time that you have spent on the talcum powder litigation up through November of last year that's not reflected in the invoices we've marked as Exhibit 13? A. No.
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2 3 4 5 6 7 8 9 10 11	and even prior to that, I was reading the literature. I was, you know, agnostic to it. And, yeah, I didn't in fact, I didn't form an opinion on this topic until until the very end of, you know, 2018. Q. When you say you were "agnostic" A. Mm-hmm. Q to this issue, whether or not talcum powder products are associated with ovarian cancer, do you mean that you had not formally come up with or developed any opinions prior to becoming involved as an expert for	2 3 4 5 6 7 8 9 10 11	November of last year? A. Yes. Q. Is there any additional time that you have spent on the talcum powder litigation up through November of last year that's not reflected in the invoices we've marked as Exhibit 13? A. No. Q. All right. First invoice, what is the total? A. 9,300. Q. The second invoice, total?
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2 3 4 5 6 7 8 9 10 11 12 13 14	and even prior to that, I was reading the literature. I was, you know, agnostic to it. And, yeah, I didn't in fact, I didn't form an opinion on this topic until until the very end of, you know, 2018. Q. When you say you were "agnostic" A. Mm-hmm. Q to this issue, whether or not talcum powder products are associated with ovarian cancer, do you mean that you had not formally come up with or developed any opinions prior to becoming involved as an expert for plaintiffs? MS. PARFITT: Objection. Form.	2 3 4 5 6 7 8 9 10 11 12 13	November of last year? A. Yes. Q. Is there any additional time that you have spent on the talcum powder litigation up through November of last year that's not reflected in the invoices we've marked as Exhibit 13? A. No. Q. All right. First invoice, what is the total? A. 9,300. Q. The second invoice, total? A. Twenty, one, zero, zero. Q. 21,000?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	and even prior to that, I was reading the literature. I was, you know, agnostic to it. And, yeah, I didn't in fact, I didn't form an opinion on this topic until until the very end of, you know, 2018. Q. When you say you were "agnostic" A. Mm-hmm. Q to this issue, whether or not talcum powder products are associated with ovarian cancer, do you mean that you had not formally come up with or developed any opinions prior to becoming involved as an expert for plaintiffs? MS. PARFITT: Objection. Form. A. Yeah. So my what I mean is I had	2 3 4 5 6 7 8 9 10 11 12 13 14 15	November of last year? A. Yes. Q. Is there any additional time that you have spent on the talcum powder litigation up through November of last year that's not reflected in the invoices we've marked as Exhibit 13? A. No. Q. All right. First invoice, what is the total? A. 9,300. Q. The second invoice, total? A. Twenty, one, zero, zero. Q. 21,000? A. 20,100.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	and even prior to that, I was reading the literature. I was, you know, agnostic to it. And, yeah, I didn't in fact, I didn't form an opinion on this topic until until the very end of, you know, 2018. Q. When you say you were "agnostic" A. Mm-hmm. Q to this issue, whether or not talcum powder products are associated with ovarian cancer, do you mean that you had not formally come up with or developed any opinions prior to becoming involved as an expert for plaintiffs? MS. PARFITT: Objection. Form. A. Yeah. So my what I mean is I had not systematically reviewed the literature to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	November of last year? A. Yes. Q. Is there any additional time that you have spent on the talcum powder litigation up through November of last year that's not reflected in the invoices we've marked as Exhibit 13? A. No. Q. All right. First invoice, what is the total? A. 9,300. Q. The second invoice, total? A. Twenty, one, zero, zero. Q. 21,000? A. 20,100. Q. Next invoice, total?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	and even prior to that, I was reading the literature. I was, you know, agnostic to it. And, yeah, I didn't in fact, I didn't form an opinion on this topic until until the very end of, you know, 2018. Q. When you say you were "agnostic" A. Mm-hmm. Q to this issue, whether or not talcum powder products are associated with ovarian cancer, do you mean that you had not formally come up with or developed any opinions prior to becoming involved as an expert for plaintiffs? MS. PARFITT: Objection. Form. A. Yeah. So my what I mean is I had not systematically reviewed the literature to form an opinion whether talcum powder products is, so I had not done the processes required to,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. Is there any additional time that you have spent on the talcum powder litigation up through November of last year that's not reflected in the invoices we've marked as Exhibit 13? A. No. Q. All right. First invoice, what is the total? A. 9,300. Q. The second invoice, total? A. Twenty, one, zero, zero. Q. 21,000? A. 20,100. Q. Next invoice, total? A. 5,100. Q. Next invoice, total?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	and even prior to that, I was reading the literature. I was, you know, agnostic to it. And, yeah, I didn't in fact, I didn't form an opinion on this topic until until the very end of, you know, 2018. Q. When you say you were "agnostic" A. Mm-hmm. Q to this issue, whether or not talcum powder products are associated with ovarian cancer, do you mean that you had not formally come up with or developed any opinions prior to becoming involved as an expert for plaintiffs? MS. PARFITT: Objection. Form. A. Yeah. So my what I mean is I had not systematically reviewed the literature to form an opinion whether talcum powder products is, so I had not done the processes required to, you know, develop an opinion.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. Is there any additional time that you have spent on the talcum powder litigation up through November of last year that's not reflected in the invoices we've marked as Exhibit 13? A. No. Q. All right. First invoice, what is the total? A. 9,300. Q. The second invoice, total? A. Twenty, one, zero, zero. Q. 21,000? A. 20,100. Q. Next invoice, total? A. 5,100. Q. Next invoice, total? A. 19,200.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	and even prior to that, I was reading the literature. I was, you know, agnostic to it. And, yeah, I didn't in fact, I didn't form an opinion on this topic until until the very end of, you know, 2018. Q. When you say you were "agnostic" A. Mm-hmm. Q to this issue, whether or not talcum powder products are associated with ovarian cancer, do you mean that you had not formally come up with or developed any opinions prior to becoming involved as an expert for plaintiffs? MS. PARFITT: Objection. Form. A. Yeah. So my what I mean is I had not systematically reviewed the literature to form an opinion whether talcum powder products is, so I had not done the processes required to, you know, develop an opinion. Q. All right. You have now done that and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. Q. Is there any additional time that you have spent on the talcum powder litigation up through November of last year that's not reflected in the invoices we've marked as Exhibit 13? A. No. Q. All right. First invoice, what is the total? A. 9,300. Q. The second invoice, total? A. Twenty, one, zero, zero. Q. 21,000? A. 20,100. Q. Next invoice, total? A. 5,100. Q. Next invoice, total? A. 19,200. Q. Last invoice, total?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	and even prior to that, I was reading the literature. I was, you know, agnostic to it. And, yeah, I didn't in fact, I didn't form an opinion on this topic until until the very end of, you know, 2018. Q. When you say you were "agnostic" A. Mm-hmm. Q to this issue, whether or not talcum powder products are associated with ovarian cancer, do you mean that you had not formally come up with or developed any opinions prior to becoming involved as an expert for plaintiffs? MS. PARFITT: Objection. Form. A. Yeah. So my what I mean is I had not systematically reviewed the literature to form an opinion whether talcum powder products is, so I had not done the processes required to, you know, develop an opinion. Q. All right. You have now done that and you're here to talk about it; is that right?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. Is there any additional time that you have spent on the talcum powder litigation up through November of last year that's not reflected in the invoices we've marked as Exhibit 13? A. No. Q. All right. First invoice, what is the total? A. 9,300. Q. The second invoice, total? A. Twenty, one, zero, zero. Q. 21,000? A. 20,100. Q. Next invoice, total? A. 5,100. Q. Next invoice, total? A. 19,200. Q. Last invoice, total? A. 40,800.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	and even prior to that, I was reading the literature. I was, you know, agnostic to it. And, yeah, I didn't in fact, I didn't form an opinion on this topic until until the very end of, you know, 2018. Q. When you say you were "agnostic" A. Mm-hmm. Q to this issue, whether or not talcum powder products are associated with ovarian cancer, do you mean that you had not formally come up with or developed any opinions prior to becoming involved as an expert for plaintiffs? MS. PARFITT: Objection. Form. A. Yeah. So my what I mean is I had not systematically reviewed the literature to form an opinion whether talcum powder products is, so I had not done the processes required to, you know, develop an opinion. Q. All right. You have now done that and you're here to talk about it; is that right? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. Is there any additional time that you have spent on the talcum powder litigation up through November of last year that's not reflected in the invoices we've marked as Exhibit 13? A. No. Q. All right. First invoice, what is the total? A. 9,300. Q. The second invoice, total? A. Twenty, one, zero, zero. Q. 21,000? A. 20,100. Q. Next invoice, total? A. 5,100. Q. Next invoice, total? A. 19,200. Q. Last invoice, total? A. 40,800. Q. Since November of 2018, can you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	and even prior to that, I was reading the literature. I was, you know, agnostic to it. And, yeah, I didn't in fact, I didn't form an opinion on this topic until until the very end of, you know, 2018. Q. When you say you were "agnostic" A. Mm-hmm. Q to this issue, whether or not talcum powder products are associated with ovarian cancer, do you mean that you had not formally come up with or developed any opinions prior to becoming involved as an expert for plaintiffs? MS. PARFITT: Objection. Form. A. Yeah. So my what I mean is I had not systematically reviewed the literature to form an opinion whether talcum powder products is, so I had not done the processes required to, you know, develop an opinion. Q. All right. You have now done that and you're here to talk about it; is that right? A. Yes. Q. Plaintiffs' counsel have paid you for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Yes. Q. Is there any additional time that you have spent on the talcum powder litigation up through November of last year that's not reflected in the invoices we've marked as Exhibit 13? A. No. Q. All right. First invoice, what is the total? A. 9,300. Q. The second invoice, total? A. Twenty, one, zero, zero. Q. 21,000? A. 20,100. Q. Next invoice, total? A. 5,100. Q. Next invoice, total? A. 19,200. Q. Last invoice, total? A. 40,800. Q. Since November of 2018, can you estimate for us the number of hours that you have

	Page 42		Page 44
1	hours that I spent with the lawyers, I don't	1	A. Okay.
2	know. Maybe I've spent 10, 15 hours on my own.	2	Q. What percentage of income is from
3	Maybe more. I just don't have that exact number.	3	consulting on litigation matters? Give us an
4	I'll have to look.	4	estimate.
5	Q. At some point, you will submit an	5	A. Okay. Yeah. Maybe 30 percent. I'm
6	invoice	6	doing my best to give you
7	A. Yes.	7	Q. Is that your you're here to be
8	Q for your time; is that right?	8	truthful; correct?
9	A. After today. Yeah.	9	A. Yeah.
10	Q. Have you been disclosed as an expert in	10	Q. Is 30 percent of your income from
11	any other talcum powder proceeding aside from	11	consulting on litigation matters, is that your
12	this case?	12	best estimate as you sit here today?
13	A. No.	13	MS. PARFITT: Objection. Some clarity
14	Q. What percent of your professional time	14	as to over what period of time?
15	do you currently spend performing work as a	15	A. Yeah. Over five years, I mean, that's
16	consultant?	16	my best estimate.
17	A. Yeah. It could be you know, varies.	17	Q. Is it a little bit more now?
18	It could be 20 to 30 percent of my time.	18	MS. PARFITT: Objection.
19	Sometimes 20 percent.	19	A. Well, over the last year, yes, but over
20	Q. Has that 20 to 30 percent of your	20	five.
21	professional time spent working as a consultant,	21	
22	has that been consistent for the past five, ten	22	Q. Over the last year, what are you
23	years?	23	working on? You're working on the talc
24	A. Yeah. So, actually, it's been less in	24	litigation; is that right? MS. PARFITT: Objection. Form.
25	the past, sometimes a little more, but, you know,	25	
25	· · ·	25	Q. Doctor, did you hear my question?
	Page 43		Page 45
1	overall, I would average out, you know, sort of	1	A. Yeah. Yeah.
2	overall, I would average out, you know, sort of as I was preparing over the last five years, it	2	A. Yeah. Yeah.Q. What other litigations are you serving
2 3	overall, I would average out, you know, sort of as I was preparing over the last five years, it would probably be 15 to 20 percent, but, you	2 3	A. Yeah. Yeah.Q. What other litigations are you serving as an expert for?
2 3 4	overall, I would average out, you know, sort of as I was preparing over the last five years, it would probably be 15 to 20 percent, but, you know	2 3 4	A. Yeah. Yeah.Q. What other litigations are you serving as an expert for?A. Viagra.
2 3 4 5	overall, I would average out, you know, sort of as I was preparing over the last five years, it would probably be 15 to 20 percent, but, you know Q. Currently, though, best estimate is 20	2 3 4 5	A. Yeah. Yeah.Q. What other litigations are you serving as an expert for?A. Viagra.Q. You're an expert for plaintiffs in
2 3 4	overall, I would average out, you know, sort of as I was preparing over the last five years, it would probably be 15 to 20 percent, but, you know Q. Currently, though, best estimate is 20 to 30 percent; is that right?	2 3 4	 A. Yeah. Yeah. Q. What other litigations are you serving as an expert for? A. Viagra. Q. You're an expert for plaintiffs in Viagra; is that right?
2 3 4 5	overall, I would average out, you know, sort of as I was preparing over the last five years, it would probably be 15 to 20 percent, but, you know Q. Currently, though, best estimate is 20	2 3 4 5	A. Yeah. Yeah.Q. What other litigations are you serving as an expert for?A. Viagra.Q. You're an expert for plaintiffs in
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1	D2~2 46		Daga 40
4	Page 46		Page 48
1	to your knowledge, in the Tasigna cases; is that	1	A. I don't understand. Like, what is a
2 3	right? A. Yes.	2	personal injury? Is it like somebody MVA kind of case or
4	Q. How about the Rahmoeller versus Walmart	3 4	Q. Well, you've been involved in Lipitor.
5	litigation, is that still ongoing?	5	You have been involved in a number of other
6	A. That stopped, but, you know, it's been	6	litigations. Let me withdraw that question. Let
7	a year since I've heard anything, so I don't	7	me make it a little more precise.
8	know.	8	Have you ever been retained in a case
9	Q. You also provided testimony in a matter	9	involving cosmetic products?
10	of Brufett versus Washington University.	10	A. No.
11	Is that still ongoing?	11	Q. In the preparation of your report, did
12	A. That has ended.	12	you review the other expert reports provided by
13	Q. Is it fair to say that all of the cases	13	plaintiffs in this MDL litigation?
14	in which you have been retained in the past	14	A. I mean, other than those cited, I have
15	A. Sure.	15	not had a chance to review them.
16	Q as an expert for plaintiffs	16	Q. The updated materials list that you
17	involving a pharmaceutical company defendant have	17	have produced here today, which we've marked as
18	involved prescription medications?	18	Exhibit 6, it contains a number of expert reports
19	A. Yeah. Prescription medications, issues	19	from plaintiff experts in the MDL talcum powder
20	of systems. I mean, that's my area of research.	20	ovarian cancer litigation; is that right?
21	Q. How much of your work is for plaintiffs	21	A. Yes.
22	versus defense as a litigation consultant?	22	Q. What is Exhibit 6? It says "Updated
23	MS. PARFITT: Objection. Form.	23	materials."
24	A. Yeah. I mean, over the last ten years,	24	Does that mean updated materials that you
25	I've provided opinions to both sides, but I have	25	have reviewed and considered?
	Page 47		Page 49
1	not been, you know when you say how much of	1	A. They were provided to me at some point
2	your work, is it time spent or	۱ ۾	
	your work, is it time spent of	2	in time between November 15th, and I haven't
3	Q. In terms of time spent, most of your	3	even I have actually not reviewed any of the
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	Q. In terms of time spent, most of your	3	even I have actually not reviewed any of the
4	Q. In terms of time spent, most of your work is for plaintiffs; is that right?	3 4	even I have actually not reviewed any of the expert reports other than those that have been
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	Page 50		Page 52
1		_	
1	Where is that listed?	1	Q. Did you review Talc Information Sheet,
2	A. No. 2. No. 2.	2 3	Health Canada? A. Yes.
3 4	Q. All right. You've reviewed Chen Up to Date. You have reviewed the second reference,	4	Q. Talc Potential Risk of Lung Effects?
5	Committee on the State of Science.	5	A. Yes.
6	A. Yeah.	6	Q. Task Force on Science Risk Assessment?
7	Q. Have you reviewed the Evolving	7	A. Yes.
8	Paradigms and Research and Care?	8	Q. The Weed Reference?
9	A. Yes.	9	A. Yes.
10	Q. The Draft Screening Assessment, Talc	10	Q. And the Zervomanolakis citation?
11	Health Canada?	11	A. Yes.
12	A. Yes.	12	Q. Have we covered all of the materials
13	Q. The EFSA Science Committee?	13	that you've reviewed on the updated materials
14	A. Yes.	14	list? Is that right?
15	Q. The EPA documents that are listed?	15	A. Yes.
16	A. No.	16	Q. Have you communicated or had any
17	Q. The FDA Ingredients Talc?	17	discussions with any of the other plaintiffs'
18	A. No.	18	experts in the talc ovarian cancer litigation?
19	Q. The Fadak Burnola citation?	19	A. No.
20	A. Yes.	20	Q. Have you reviewed any deposition or
21	Q. The Federal Register, Volume 81?	21	trial transcripts from prior talcum powder cases?
22	A. Yes.	22	A. Not prior cases, but I reviewed the
23	Q. Have you reviewed the Kemp hearing	23	deposition of Dr. Plunkett.
24	opinion and order?	24	Q. Plunkett?
25	A. I don't think so.	25	A. Plunkett.
	Page 51		Page 53
1		1	Page 53 Q. Have you reviewed any other depositions
1 2	Q. The Keys Model Information Bias? A. Yes.	1 2	
	Q. The Keys Model Information Bias?		Q. Have you reviewed any other depositions
2	Q. The Keys Model Information Bias?A. Yes.	2	Q. Have you reviewed any other depositions of experts that have been taken in the MDL
2 3	Q. The Keys Model Information Bias?A. Yes.Q. Kunz?	2	 Q. Have you reviewed any other depositions of experts that have been taken in the MDL ovarian cancer talcum powder litigation? A. No. Q. Did you conduct any independent
2 3 4	Q. The Keys Model Information Bias?A. Yes.Q. Kunz?A. Yes.Q. Official Journal of the European Union?A. No.	2 3 4	 Q. Have you reviewed any other depositions of experts that have been taken in the MDL ovarian cancer talcum powder litigation? A. No. Q. Did you conduct any independent investigation to reach your opinions?
2 3 4 5	 Q. The Keys Model Information Bias? A. Yes. Q. Kunz? A. Yes. Q. Official Journal of the European Union? A. No. Q. Qiao, Q-I-A-O? 	2 3 4 5	 Q. Have you reviewed any other depositions of experts that have been taken in the MDL ovarian cancer talcum powder litigation? A. No. Q. Did you conduct any independent
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2 3 4 5 6 7 8 9	 Q. The Keys Model Information Bias? A. Yes. Q. Kunz? A. Yes. Q. Official Journal of the European Union? A. No. Q. Qiao, Q-I-A-O? A. No. Q. Risk Management Scope, Talc Health 	2 3 4 5 6 7 8	 Q. Have you reviewed any other depositions of experts that have been taken in the MDL ovarian cancer talcum powder litigation? A. No. Q. Did you conduct any independent investigation to reach your opinions? A. I mean, I my opinion is independent of these. Q. As I understand it, what you did is you
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	Page 54		Page 56
1	recross, but I'm trying to clean it up.	1	not necessarily the ones who may have helped me
2	BY MR. ZELLERS:	2	in printing articles.
3	Q. Doctor, go ahead.	3	Q. My question is: Who helped prepare
4	A. I didn't get the question. Can you	4	your report other than yourself?
5	repeat?	5	MS. PARFITT: Objection. Objection. I
6	Q. Sure. The question is: You were asked	6	believe you've asked that. He's answered it.
7	to form an opinion by plaintiffs. You went out	7	A. Okay. Let me answer.
8	and you reviewed the literature.	8	Q. Sure. Go ahead, Doctor. Please
9	You considered the literature and you	9	answer.
10	formulated an opinion; is that right?	10	A. I prepared my report.
11	A. Yes.	11 12	Q. I understand you prepared your report.
12 13	MS. PARFITT: Objection.	13	My question is: Did anyone assist you in
14	A. And it was an independent opinion.Q. An independent opinion based upon your	14	preparing your report? MS. PARFITT: Objection.
15	review of the literature; is that right?	15	A. No.
16	A. Yeah. Based upon my review of the	16	Q. You were provided some materials by
17	literature and the documents and, you know,	17	plaintiffs' counsel; is that right?
18	whatever was available to me.	18	A. Yes.
19	Q. And those all of those materials	19	Q. You reviewed some of those materials,
20	that you reviewed, considered and relied upon	20	but not all of those materials; is that right?
21	have been included in the exhibits that we've	21	A. Yes.
22	marked in this deposition; is that right?	22	Q. In terms of the references, Exhibit 4.
23	A. That is correct.	23	And that is identified as Pages 67 through 75 in
24	Q. Was there anything that you asked	24	your full report that we marked as Exhibit 10.
25	plaintiffs' counsel for to prepare your report	25	But looking at your references, Exhibit 4,
	Page 55		Page 57
1			
	that you were not provided with?	1	some of these references were provided by counsel
2	that you were not provided with? A. No.	1 2	some of these references were provided by counsel for plaintiffs to you; is that right?
			*
2	A. No.	2	for plaintiffs to you; is that right?
2 3	A. No.Q. Did anyone assist you in the	2 3	for plaintiffs to you; is that right? MS. PARFITT: Objection.
2 3 4	A. No. Q. Did anyone assist you in the preparation of your report?	2 3 4	for plaintiffs to you; is that right? MS. PARFITT: Objection. A. Yes.
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	Page 58		Page 60
1	respect to the additional materials and data	1	additional materials and data considered, items
2	considered, Exhibit 5.	2	that are listed in Exhibit 5?
3	Do you see that?	3	A. By reviewed and considered, I mean,
4	A. Yes.	4	have I read every word of it? No. I reviewed
5	Q. What's the difference between	5	and considered.
6	Exhibit 4, references, and Exhibit 5, additional	6	Q. Who prepared the additional materials
7	materials and data considered?	7	and data considered list?
8	A. So as I went about and did my, you	8	MS. PARFITT: Objection.
9	know, systematic review and, you know, umbrella	9	A. I prepared the list, but I asked them
10	review, I gathered all the materials and, you	10	also to help me with what materials they had
11	know, I included studies and data that provided	11	sent.
12	original data on the causal question that we	12	Q. The lawyers for plaintiffs; is that
13	discussed.	13	right?
14	Q. Doctor, my question was simply, what's	14	A. Yes.
15	the difference between references and additional	15	Q. So in your documents, you do have a
16	materials and data considered?	16	listing of the materials that were provided to
17	A. So the additional materials are those	17	you by plaintiffs' counsel for consideration; is
18	that were, I would say, you know, reviewed, were	18	that right?
19	still reviewed in forming the opinion, but they	19	MR. LOCKE: Objection. Misstates the
20	are not they don't they don't form the	20	testimony.
21	basis of my opinion.	21	A. I'm sorry. Can you repeat?
22	Q. The materials that you relied on in	22	Q. Sure. The question is: You do have,
23	forming your opinion are what you've set forth as	23	because you requested it, a listing of the
24	your references, Exhibit 4; is that right?	24	documents and materials that were provided to you
25	MS. PARFITT: Objection.	25	by plaintiffs' counsel for you to consider;
	Page 59		Page 61
1	A. Yeah. I mean, and then things that,	1	correct?
2	you know obviously, for the report, it is the	2	MS. PARFITT: Objection. Misstates his
3	references. Yeah.	3	testimony.
4	I did rely on these to review them and, you	4	He didn't say he got a list.
5	know	5	MR. ZELLERS: Okay. Ms. Parfitt,
6	Q. Did you strike that.	6	please, form, foundation. You know, he can
7	MS. PARFITT: For the record, that was	7	testify, and whatever he's testified to, it's
8	Exhibit 5.	8	part of the record.
9	MR. ZELLERS: Well, no well, the	9	MS. PARFITT: Sure. And, Mr. Zellers,
10	references is Exhibit 4. The additional	10	I am not trying to interrupt your deposition,
11	materials and data considered is Exhibit 5.	11	trust me on that, but I do want some clarity to
12	MS. PARFITT: Correct.	12	the record.
13	BY MR. ZELLERS:	13	MR. ZELLERS: Great. That's what we're
14	Q. So looking at Exhibit 5, additional	14	doing right here.
15	materials and data considered, were some of these	15	MS. PARFITT: Well
16	materials provided to you by counsel for	16	MR. ZELLERS: We've now asked the
17	plaintiffs?	17	question two or three times.
18	A. Yeah. They may have been. These are	18	BY MR. ZELLERS:
19	data considered. So I'm not as familiar with	19	Q. Do you have the question?
20	these as	20	MS. PARFITT: It's a little different.
21	Q. Have you are you finished?	21	But go ahead.
22	A. Yeah. I'm not I mean, I reviewed	22	A. So I had asked for additional materials
23	them. I, you know	23	in understanding the causal question between
24 25	Q. Is it your testimony that you have reviewed and considered each and every one of the	24	talcum powder products and ovarian cancer.
	reviewed and considered each and every one of the I	25	 Q. What additional materials did you

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Page 62 Page 64 1 request? material, I can tell you, there's not enough time 1 2 2 A. I requested additional materials to review all of it. I mean, if somebody has, 3 regarding what are the constituents of talcum 3 that's great. I can't. 4 powder products. I -- you know, additional 4 O. Are you done? 5 materials regarding testing of talcum powder 5 A. Yes. 6 products -- I -- you know, anything to, you know, 6 Q. Did you, when you made that request, 7 enhance my understanding whether there's evidence 7 intend for plaintiffs to provide you with all of 8 to support or refute what we are seeing in the 8 the information that was available related to 9 epidemiologic studies about an increased risk of 9 testing or related to ingredients or whatever 10 ovarian cancer with talcum powder products. 10 other issues you requested documents on? 11 Q. When you requested these materials, 11 MS. PARFITT: Objection. Form. 12 testing materials, ingredient materials and any 12 13 other materials, did you want to see all of the 13 Q. All right. In your report, you cite --14 materials that were available so that you could 14 and this is in references -- to the depositions 15 form your opinion? 15 of witnesses in the talcum powder litigation. 16 MS. PARFITT: Objection. Form. 16 For example, and let's take a look at Exhibit 4, 17 A. All is -- you know, there's only so 17 your references, Cite No. 4 is to the deposition 18 many hours. I mean, you know, I think I wanted 18 of Linda Loretz. 19 to see as much as, you know, was relevant to 19 Did you review this? 2.0 forming an opinion. 20 A. Yes, I did. 21 Q. Well, you asked for records of testing 21 Q. And who is she? 22 and you were provided with records, and we'll 22 A. I don't recall offhand, who she is. 23 take a look at it --23 Q. Is that information that was provided 24 A. Sure. 24 to you by plaintiffs' counsel? 25 Q. -- that purport to show that there is A. Yes. 25 Page 63 Page 65 1 1 Q. Who is Joshua Muscat, reference list, asbestos or asbestos has been found in talcum 2 2 Cite No. 5? powder: correct? 3 A. I mean, that's not the only -- that's 3 A. I think he did one of the 4 not only --4 meta-analyses. He's an author of one of the 5 Q. Understood. 5 meta-analyses as well. 6 MS. PARFITT: Excuse me. Let him 6 Q. Who is Alice Blount, Cite 27? 7 finish his answer, if you will, please. I'm not 7 A. Yeah. They did a study on talc and 8 8 sure he was done. Appreciate that. also I was deposed on that. 9 Q. Are you done? 9 Q. Did you request that deposition or was 10 A. No. I'm not. I want to finish my 10 that provided to you? MS. PARFITT: Objection. 11 answer. 11 12 Q. Okay. 12 A. I requested information on -- as I 13 A. So I requested documents because I 13 said, my request wasn't for deposition -- you 14 wanted to understand what constitutes talcum 14 know, all documents that helped me answer the 15 powder products, and whether it is asbestos or 15 causal question. 16 whether it is other heavy metals, that's sort of 16 Q. Whether they support plaintiffs' 17 position or refute plaintiffs' position; is that a separate answer, and we can discuss that, and 17 18 I'm sure we will. 18 right? 19 19 A. To answer the causal question. That's But I wanted to understand the constitution 20 of the product and, you know, whether there were 20 what --21 additional studies on, you know, whether it was 21 Q. You wanted, though, all relevant 22 mechanisms that -- so because -- so that's what 22 documents, whether they supported plaintiffs' 23 position or whether they refuted plaintiffs' the request was for. 23 24 And the documents were provided. And my 24 position; correct? 25 review, looking at the complexity and volume of 25 A. To answer the causal questions. I

	Page 66		Page 68
1	don't	1	A. So we can we can go back to the
2	Q. Can you not answer that question?	2	sections where I cite these and then we can
3	MS. PARFITT: Objection. I believe	3	discuss. Is that okay?
4	A. I'm answering your question.	4	Q. No. Well, and if you need to if you
5	MS. PARFITT: he did.	5	can't answer a question, tell me you can't answer
6	Q. My question is: When you requested	6	a question.
7	documents from plaintiffs' counsel on various	7	My question is: For these five or six folks
8	topics, did you expect to receive whatever	8	who you have quoted a snippet from their
9	documents may support plaintiffs' position and	9	deposition, did you review their entire
10	whatever documents may refute plaintiffs'	10	transcript or did you just review an excerpt?
11	position?	11	MS. PARFITT: Objection to the form.
12	A. Yes.	12	A. So the answer will be, we have to go
13	Q. All right. Who is John Hopkins,	13	one by one.
14	reference item strike that reference list,	14	Q. All right. For Mr. Hopkins, did you
15	Cite 33?	15	review his entire deposition?
16	A. I think it's yeah. It's a	16	A. No.
17	deposition on behalf of J&J, I think.	17	Q. For Ms. Pier, did you review her entire
18	Q. Do you know who Mr. Hopkins is?	18	deposition?
19	A. No, I don't.	19	A. No.
20	Q. Do you know what role he had with	20	Q. For Ms. Blount, did you review her
21	talcum powder?	21	entire deposition?
22	MS. PARFITT: Objection. Form.	22	A. I recall, yes.
23	A. I mean, he was deposed in this	23	Q. Yes, you did?
24	litigation and he provided testimony.	24	A. Yes.
25	Q. The question is: Do you know what role	25	Q. For Ms. Loretz, did you review her
	D 65		
	Page 67		Page 69
1	_	1	
1 2	Mr. Hopkins played in and with talcum powder?	1 2	Page 69 entire deposition? A. Yes.
2	Mr. Hopkins played in and with talcum powder? A. He was providing testimony on behalf of	2	entire deposition? A. Yes.
2 3	Mr. Hopkins played in and with talcum powder? A. He was providing testimony on behalf of the company. Is that		entire deposition? A. Yes. Q. Did strike that.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Mr. Hopkins played in and with talcum powder? A. He was providing testimony on behalf of the company. Is that Q. Other than that, do you know anything about what he did on behalf of the company? A. No. Q. Do you know what his positions were? A. I don't recall. Q. Do you know what his duties and responsibilities were? A. I don't review that as a part of my deposition, is to review positions and do responsibilities. Q. And who is Julie Pier, Item 35? A. She was testifying on behalf of Imerys, I think. Q. Do you know her position? A. I don't review you know, she was testifying for the company, as that's as far as I know. Again, I don't know what role she was playing and what she does. Q. Did you read, for each of these	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	entire deposition? A. Yes. Q. Did strike that. For Mr. Muscat, did you review his entire deposition? A. Yes, I did. Q. Did you review all of the exhibits to those depositions? A. Again, those are pages and pages of documents. I don't know that if I reviewed every single page of it. Q. Is it your practice, outside of litigation, to rely on excerpts of deposition testimony? A. Well, I mean, when you say "excerpts of depositions," when I reviewed evidence, when I try to gather evidence, as I said, you know, I was trying to answer the causal question; I try to gather all relevant evidence to the relevant causal question at hand. And sometimes these are unpublished documents, and sometimes these are regulatory
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Mr. Hopkins played in and with talcum powder? A. He was providing testimony on behalf of the company. Is that Q. Other than that, do you know anything about what he did on behalf of the company? A. No. Q. Do you know what his positions were? A. I don't recall. Q. Do you know what his duties and responsibilities were? A. I don't review that as a part of my deposition, is to review positions and do responsibilities. Q. And who is Julie Pier, Item 35? A. She was testifying on behalf of Imerys, I think. Q. Do you know her position? A. I don't review you know, she was testifying for the company, as that's as far as I know. Again, I don't know what role she was playing and what she does. Q. Did you read, for each of these depositions that you reference and cite to, did	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	entire deposition? A. Yes. Q. Did strike that. For Mr. Muscat, did you review his entire deposition? A. Yes, I did. Q. Did you review all of the exhibits to those depositions? A. Again, those are pages and pages of documents. I don't know that if I reviewed every single page of it. Q. Is it your practice, outside of litigation, to rely on excerpts of deposition testimony? A. Well, I mean, when you say "excerpts of depositions," when I reviewed evidence, when I try to gather evidence, as I said, you know, I was trying to answer the causal question; I try to gather all relevant evidence to the relevant causal question at hand. And sometimes these are unpublished documents, and sometimes, as is in this case, they

Page 70 Page 72 as those conducted by, you know, Health Canada. as humanly possible. 1 1 I mean, they clearly state that, you know, 2 2 Q. My question is a little more specific. 3 you gather all relevant available evidence. 3 I'm talking now just about any documents produced 4 Q. That was your goal; is that right? 4 by Johnson & Johnson defendants or any documents 5 5 produced by Imerys defendants. A. Yes. 6 You do cite to several of those in your 6 Q. Did Health Canada review deposition 7 testimony of company witnesses, to your 7 reference list; correct? 8 knowledge? 8 A. Yes. 9 A. Well, they were not available to them. 9 Q. You were provided those documents by 10 Q. When you practice, outside of being a 10 counsel for plaintiffs; correct? 11 litigation consultant, do you rely on excerpts of 11 A. Yes. Q. Were you provided a large set of 12 deposition testimony? 12 materials, company documents from the J&J 13 A. Well, again, you know, outside of this, 13 14 when I do papers -- I mean, I do include 14 defendants and from the Imerys defendants, or 15 unpublished or whatever you can collect, 15 were you provided with select documents? 16 whether -- whether it's excerpts of -- I mean, I 16 MS. PARFITT: Objection. Form. 17 haven't -- if I look at my past papers, I can't 17 A. I mean, these are company documents. I mean, what is the difference between the two? 18 say that I've used excerpts of deposition 18 19 transcripts. 19 Like explain to me by example. 20 Q. Did -- strike that. 20 Q. Were you provided a box of J&J 21 You also cite company documents in your list 21 documents or documents produced by J&J for your 22 of references; is that right? 22 review by plaintiffs' counsel? 23 A. Which one is that? 23 MS. PARFITT: Objection. Form. 24 A. I don't know. I mean, they provided 24 O. Exhibit 4. 25 A. Which company? 25 documents. I see them as documents. I don't see Page 71 Page 73 1 Q. Well, for example, Item 116 refers to 1 a difference between. You can -- you know, you an Imerys document, item 63 refers to a document 2 2 can make that connection. 3 or set of documents produced by the 3 Q. Let me do it this way. Johnson & Johnson defendants; correct? 4 4 A. Sure. 5 A. What was the second one? I'm sorry. 5 Q. Are the documents that you reviewed 6 You said 116 and then? 6 relating to those produced by J&J or produced by 7 Q. Yes. Sixty --7 Imerys, do you list those in your references, 8 MS. PARFITT: 63. 8 Exhibit 4, and your additional materials and data 9 9 considered, Exhibit 5? 10 A. I'll have to go back and see what do 10 A. They are listed. Yes. they cite about, to refresh my memory. Q. All right. When you are doing your day 11 11 12 Q. As you sit here, you don't remember 12 job, outside of your litigation consulting work, 13 what those documents are, do you? 13 do you rely on internal company documents? A. Yeah. Yeah. I'd have to go back. MS. PARFITT: Objection. Form. 14 14 15 Q. Is that correct? A. I mean, I have relied on company 15 documents. When you say "internal company 16 A. Yeah. I mean, I have to go back to my 16 17 report and see them. 17 documents," that's, you know -- yeah. I have 18 Q. My question is: Did plaintiffs' 18 relied on company documents. We have relied on 19 counsel provide you with a large set of J&J 19 company trial registries for publications. We and Imerys company documents and you went through have relied on -- whether you're talking about 20 20 and whittled them down, or did they provide you company communication, that's different. 21 21 But in terms of if we have data available 22 with select documents? 22 23 MS. PARFITT: Objection. Form. 23 from the company, there's no reason not to rely 24 A. Well, I mean, I feel it's a large set. 24 on that. 25 As you can see, I've reviewed, you know, as much 25 Q. I'm talking about company

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Page 74
                                                                                                      Page 76
      communications, the types of documents that you
 1
                                                           1
                                                                testimony.
      cite from or produced by J&J and by Imerys in
 2
                                                           2
                                                                   A. I've already stated that when I publish
 3
                                                           3
      your reference list.
                                                                articles, the approach is to gather all relevant,
 4
         Those are not the types of materials that
                                                           4
                                                                available evidence.
 5
      you typically would rely on if you were doing a
                                                           5
                                                                   And I have, in fact -- you can go back at my
 6
      study for publication; correct?
                                                           6
                                                                articles -- and included data from company
 7
            MS. PARFITT: Objection. Form.
                                                           7
                                                                documents in various systematic reviews and
 8
         A. And, again, I've just said that, you
                                                           8
                                                                meta-analyses. So this idea that I have not
 9
      know, I gathered all the relevant evidence, as
                                                           9
                                                                relied on company documents is -- you know, is
10
      would -- you know, as a methodology that's
                                                          10
11
      acceptable and considered.
                                                          11
                                                                   The question is about deposition transcripts
12
         But, you know, in my previous reviews, I've
                                                          12
                                                                and communiques. Those are generally not
13
      not had access to -- access to those documents.
                                                          13
                                                                available in the published domain, and even for
14
      And that's the only -- that's the only place
                                                          14
                                                                this particular instance, you know, for there's a
15
      where you can get access to these documents.
                                                          15
                                                                confidentiality order. I'm just trying to
16
         Q. The answer to my question is no, you
                                                          16
                                                                explain what happens.
17
      know, when you publish articles, you do not rely
                                                          17
                                                                   Q. So that our record is clear, when you
      on internal company documents or communications
18
                                                          18
                                                                talk about internal communiques, we're talking
19
      as you are in this litigation matter; correct?
                                                          19
                                                                about internal communications, in this case,
2.0
            MS. PARFITT: Objection. Form.
                                                          20
                                                                materials that you have been provided by
         A. The reason is because there's a
21
                                                          21
                                                                plaintiffs that have been produced by J&J and by
22
      confidentiality order. And so you can't say you
                                                          22
23
      can't publish articles when you can't access
                                                          23
                                                                   Those are not the types of documents that
24
      them. I mean, there's a chicken and egg, here,
                                                          24
                                                                you typically have available and rely upon in
25
                                                          2.5
                                                                your published work; correct?
      right?
                                                                                                      Page 77
                                            Page 75
 1
                                                           1
                                                                      MS. PARFITT: Objection. Misstates his
         Q. Understood.
                                                           2
 2
         The answer, though, to my question is yes;
 3
                                                           3
                                                                   Q. Is that correct, Doctor?
      correct?
 4
            MS. PARFITT: Objection. Form.
                                                           4
                                                                      MS. PARFITT: Objection. Misstates his
 5
                                                           5
         A. The reason is because these
                                                                testimony.
 6
      documents --
                                                           6
                                                                   A. These are just not available to form an
                                                           7
 7
         Q. Doctor, you need to answer the
                                                                opinion in the published domain.
 8
                                                           8
                                                                   Q. You have an additional --
      question.
 9
                                                           9
                                                                      THE WITNESS: Can I take a break?
            MS. PARFITT: Wait, Mr. Zellers.
10
                                                          10
      Excuse me. Let the witness answer the question.
                                                                      MR. ZELLERS: Sure. Of course. At any
11
            MR. ZELLERS: I'm asking him to answer
                                                          11
                                                                time.
12
      the question and then I'll be happy to move on.
                                                          12
                                                                      THE WITNESS: Sorry about that.
13
            MS. PARFITT: No. You're telling him,
                                                          13
                                                                      MR. ZELLERS: No. That's fine.
14
      say yes. He's trying to answer your question.
                                                          14
                                                                      THE VIDEOGRAPHER: Off the record.
            Ask him again. He'll answer the
                                                          15
                                                                10:22 a.m.
15
                                                                        (A recess was taken.)
16
      question. He's done it twice.
                                                          16
17
         Q. Do you need me to repeat the question?
                                                          17
                                                                      THE VIDEOGRAPHER: Here begins media
18
         A. Yes, please.
                                                          18
                                                                No. 2 in today's deposition of Sonal Singh, M.D.,
19
            MR. ZELLERS: Could you read the
                                                          19
                                                                M.P.H. Back on the record, 10:35 a.m.
                                                          20
20
                                                                BY MR. ZELLERS:
      question?
21
                                                          21
                                                                   Q. Dr. Singh, are you ready to continue?
            I'll ask it again.
         Q. Dr. Singh, when you publish articles,
22
                                                          22
                                                                   A. Yes, I am.
23
      you do not rely on internal company documents;
                                                          23
                                                                   Q. When we broke, we were looking at the
24
      correct?
                                                          24
                                                                additional materials and data considered list,
25
            MS. PARFITT: Objection. Misstates his
                                                                which we have marked as Deposition Exhibit 5.
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	Daga 70		Page 80
	Page 78		
1	Do you have that?	1	answer the causal question in this case; is that
2	A. Yes.	2	right?
3	Q. There are some documents on this list	3	A. Yes.
4	that have a preface of Imerys. And if you look	4	MS. PARFITT: Objection.
5	on Page 87, you list those documents out. And	5	Q. You did not have access to internal
6	then turning to Page 88, there's a series of	6	documents of J&J companies or of Imerys; is that
7	documents that begin with J&J.	7	right?
8	Do you see those?	8	A. Yes.
9	A. Yes.	9	Q. You asked for those documents, the ones
10	Q. Did you rely on those documents in	10	that would be relevant to you in forming an
11	informing your opinions?	11	answer to the question you were asked of
12	A. No. I mean, I reviewed I don't know	12	plaintiffs' counsel; correct?
13	if I reviewed them in full. I just you know,	13	A. Yeah. Relevant to consider or support
14	they were provided to me.	14	or refute. Yeah.
15	Q. That is, the set of documents that were	15	Q. The documents that were provided to you
16	provided to you by counsel for plaintiffs; is	16	are the documents that appear with a J&J
17	that right?	17	preface preface and an Imerys preface in the
18	A. Yes.	18	reference list, Exhibit 4, and in the additional
19	Q. Are you able, as we sit here, to tell	19 20	materials and data considered list, Exhibit 5;
20	me what those documents are?		correct?
21	A. Yeah. I mean, for example, some of	21	A. Yes.
22	them is, you know, duplicative of expert reports	22	Q. Once you got those documents and you
23	that are listed here. I don't know by number and	23	looked at those documents and you're not sure
24 25	number, J&J, what that means.	24 25	you looked at all of them; is that right? A. Yes. I did not. I mean
<u> </u>	Q. I'm referring to, for this series of	25	
	Page 79		Page 81
1	questions, just to the other materials that you	1	Q. All right.
2	have listed, the ones that begin with Imerys. So	2	A because it is not possible to look
3	starting at Item 2 on Page 87. And then also	3	at all of them.
4	including the documents that begin J&J that go	4	Q. Did you make any follow-up request for
5	through Item 23 on Page 88.	5	additional company documents, either documents
6	Are you able to identify and tell us what	6	produced by J&J or documents produced by Imerys,
7	those documents are?	7	of plaintiffs' counsel?
8	A. I mean, I was provided them. I don't	8	A. I was inundated with these, and I don't
9	know what specifically they are, you know.	9	think it was practical of me to request for
10	Q. Do you know how they were compiled?	10	additional documents.
11	A. No. I'm not aware of the process.	11	Q. In terms of internal company documents
12	Q. Do you know what percentage of internal	12	and communications produced either by
13	documents, internal to Johnson & Johnson	13	Johnson & Johnson and by Imerys, the only
14	companies and to Imerys, have been produced in	14	documents you reviewed are the ones that were
15	the case that appear on your reliance list?	15	hand selected by lawyers for plaintiffs; is that
16	A. I'm not aware of that proportion.	16	right?
	Q. Did you request any additional J&J or	17	MS. PARFITT: Objection. Form.
17		18	A. The documents that I reviewed are
17 18	Imerys documents other than the ones that were		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
17 18 19	provided to you by plaintiffs' counsel?	19	listed, you know, in 4 and 5.
17 18 19 20	provided to you by plaintiffs' counsel? A. So, it's hard to say request	19 20	Q. My question
17 18 19 20 21	provided to you by plaintiffs' counsel? A. So, it's hard to say request additional. I requested question materials to	19 20 21	Q. My question A. I don't know what so you're asking
17 18 19 20 21 22	provided to you by plaintiffs' counsel? A. So, it's hard to say request additional. I requested question materials to answer my question. How would I know what	19 20 21 22	Q. My question A. I don't know what so you're asking me to infer what they hand selected; right? I
17 18 19 20 21 22 23	provided to you by plaintiffs' counsel? A. So, it's hard to say request additional. I requested question materials to answer my question. How would I know what additional you know, I requested materials.	19 20 21 22 23	Q. My question A. I don't know what so you're asking me to infer what they hand selected; right? I mean, whether they provided all, whether they
17 18 19 20 21 22	provided to you by plaintiffs' counsel? A. So, it's hard to say request additional. I requested question materials to answer my question. How would I know what	19 20 21 22	Q. My question A. I don't know what so you're asking me to infer what they hand selected; right? I

Page 82 Page 84 1 So how can I answer that they were hand 1 Q. It's fair to say you did not rely on the updated materials list in forming your 2 2 selected? 3 3 Q. The company documents that you opinions and preparing your report in this case; 4 reviewed, internal company documents, they came 4 correct? 5 5 from plaintiffs; is that correct? A. Yeah. I did not rely on this, on these 6 materials in preparing the report, but several of A. Yes. 6 7 7 Q. The updated materials list, we marked these materials are, you know, are helpful in 8 that as Exhibit 6. 8 explaining my opinions on this, which were, you 9 9 Those are materials that were provided to know, provided in the report. 10 you by plaintiffs' counsel; is that right? 10 Q. Have you published anywhere your theory that baby powder causes ovarian cancer? 11 A. No. I submitted -- I mean, I had 11 access to several of these documents, you know, 12 A. I don't consider it my theory. I mean, 12 several other people have studied this. I don't 13 after the submission of my report, and I reviewed 13 14 them and I actually sent them some of them. 14 know how many studies. There have been more than 15 So... 15 30 studies. 16 Q. What documents on this list did you 16 So I don't consider it my theory. But, no, 17 provide to plaintiffs and what documents on this 17 I have not published a study on it. list -- we're looking at Exhibit 6 -- did they Q. Do you plan to publish on this? 18 18 19 provide to you? 19 A. Yes, I do. A. Like I had the Fadak article. I had 2.0 2.0 Q. Are those plans underway? 21 the Health Canada Assessment. They provided the 21 A. Well, I mean, a lot of it will, again, 22 submitted reports. I had the Weed article. They 22 depend on, you know, the questions you asked provided the Zervo -- I don't know how to about how much of this material will become 23 23 24 pronounce that name. Yeah. 24 eventually -- you know, I have signed a 25 So, yeah, I had access to some of these, and 25 confidentiality order. So, you know, how much is Page 85 Page 83 1 I provided the up-to-date article, and the 1 allowed to be published. 2 remainder, they provided. 2 And so, you know, a lot of it will depend 3 MR. KLATT: May I interject? I didn't on, I guess, the permission of the judge, who 3 understand the very first article you said. It allows -- who oversees these kind of -- I would 4 4 5 sounded like dark. 5 like to, eventually. б THE WITNESS: Fadak. 6 Q. Have you previously published on any 7 MS. PARFITT: F-A-D-A-K. 7 topic relating to talc and ovarian cancer? 8 8 THE WITNESS: Fadak, that's a paper --A. No. 9 MR. KLATT: Okay. I see. Thank you. 9 Q. Have you conducted any test or THE WITNESS: That's a 2015 paper. experiments to confirm your theory that talc 10 10 MR. KLATT: I saw it. Thank you. migrates to the ovaries and causes cancer via 11 11 12 BY MR. ZELLERS: 12 inflammation? 13 Q. When did you review the materials that 13 A. So, again, that is not a theory that I are listed on the updated materials list, 14 14 have propounded, that talc migrates through the ovary, that talc migrates up to cause ovarian 15 Exhibit 6? 15 cancer, that I have evaluated the epidemiologic 16 A. So, again, maybe we circle back earlier 16 17 when I said I did not review all of them, like I studies, which show a causal link between talc 17 18 did not review the expert reports. Yeah. 18 and ovarian cancer, and several other 19 Q. Of the materials that you did review, 19 investigators, some of them which I cite, have 20 on the updated materials list, when did you 20 provided evidence that -- of talc-induced, you 21 review those? 21 know, migration. 22 A. Sometime between December and January. 22 So it's not my theory, as you say. 23 Q. It was after you had prepared your MR. ZELLERS: Move to strike as 23 24 written report and produced it; is that right? 24 nonresponsive. Try to listen. 25 A. Yes. 25 Q. My question is, I think, a simple

Page 86 Page 88 1 question. 1 A. Yeah. It was available to everyone in 2 2 Have you, Dr. Singh, conducted any test or December. 3 experiments to confirm your statement in your 3 Q. Have you looked into what other public 4 report that talc migrates to the ovaries and 4 health authorities have to say about talc and 5 causes cancer via inflammation? 5 ovarian cancer? 6 A. No. I have not done any experiments. 6 A. Yes. 7 Q. Can you identify for me a single 7 Q. Would it be important for you to know 8 article that identifies inflammation anywhere in 8 that CDC does not list talc as a risk factor for 9 a woman's reproductive tract resulting from 9 ovarian cancer? 10 external genital talc application? 10 MS. PARFITT: Objection. Form. MS. PARFITT: Objection. Form. 11 11 A. I mean, it would be important to know, A. Can you repeat the question? 12 you know, various agencies, you know, CDC, 12 13 Q. Sure. Can you identify for me a single 13 whatever. I mean, you would like to know of 14 article that identifies inflammation anywhere in 14 many, many agencies. 15 a woman's reproductive tract resulting from 15 But, again, you'd have to -- you'd have to external genital talc application? see the quality of their judgment. I mean, what 16 16 17 A. I mean, again, this is, you know, when 17 is their rationale? What are the studies they I reviewed -- so this relates to the biological 18 reviewed? What is the data available? 18 19 question about talc. And when I reviewed the 19 Just like as you said, what is the data 20 biological evidence, I was on migration and 20 available to me to make that judgment, what is 21 inflammation, I was looking for evidence, support 21 data available to them? Just because they are 22 or refute that. 22 the CDC doesn't mean that, you know -- yes, I 23 And there's studies that show that talc 23 would like to know their opinion, but then what 24 migrates through HS, you know, whatever, 24 is the underlying basis of their opinion? 25 hysterosalpingography, and induces inflammation. Q. You're familiar with the CDC; correct? 25 Page 87 Page 89 1 I mean, the definitive study is not there. 1 A. I'm very familiar with the CDC. 2 And, again, I did not do these studies. So 2 Q. It is an unbiased governmental entity; 3 I can only rely on people who have done such 3 correct? 4 4 A. Well, it would depend on the opinion. 5 5 Q. Can you cite a single study, animal or I mean, you know, we cannot say an entity is 6 human, that traces externally applied talc up 6 unbiased. It would depend what is the particular 7 through the reproductive tract to the ovaries? 7 opinion -- you know, if the CDC provides 8 8 MS. PARFITT: Objection. Form. vaccination. We have to look at the particular 9 A. Again, but I do not believe that's 9 context. 10 necessary to, you know, provide my causal opinion 10 Q. Are you aware that the CDC does not in support of a causal hypothesis. 11 11 list talc as a risk factor for ovarian cancer? 12 MR. KLATT: Objection. Nonresponsive. 12 A. Yes. 13 Q. Is the answer to my question, no? 13 MS. PARFITT: Objection. MS. PARFITT: Objection. Form. 14 14 Q. Are you aware that the Mayo Clinic does 15 A. No, with context. not list tale as a risk factor for ovarian 15 16 Q. Health Canada Risk Assessment, that was 16 cancer? 17 not something that you included in your 17 A. I'm not aware of Mayo Clinic. 18 references or materials considered as part of 18 Q. You are aware of NIH; correct? 19 your report; is that right? 19 A. Yes. I'm funded by the NIH. 20 A. Yes. It was not available at that 20 Q. Do you know that NIH does not list talc 21 as a risk factor for ovarian cancer? time. 21 22 Q. All right. It is listed, the Health 22 A. Yes. And I have been aware of, you 23 Canada Risk Assessment is listed in your updated 23 know, changes in the past to their -- to their 24 materials list that we got over the weekend; 24 statements. 25 correct? 25 (Article entitled "Ovarian,

Page 90 1 Fallopian Tube, and Primary Peritoneal 2 Cancer Prevention (PDQ) - Health 3 Professional Version marked Exhibit 15.) 4 MR. ZELLERS: Take a look at Deposition 5 Exhibit 15. 6 MS. PARFITT: Thank you. 7 BY MR. ZELLERS: 8 Q. Deposition Exhibit 15 is a publication 9 from the National Cancer Institute; is that 10 right? 11 A. It is. 12 Q. National Cancer Institute is a leading 13 health authority; is that right? 14 A. Yes. 15 Q. It's a leading cancer research 16 institution in the world? 17 MS. PARFITT: Objection. Form. 18 A. Yes. 19 Q. Have you ever received a grant from the 10 National Cancer Institute? 21 A. I've applied. I have not received any. 22 I am applying again. 23 Q. They fund more cancer research than any organization in the world; correct? 25 MS. PARFITT: Objection. Page 91 1 A. I don't know that particular number, but - I just don't know that answer. 2 Q. Ar you aware that the National Cancer Institute reviews the peer-reviewed literature as it relates to risk factors for ovarian cancer? 16 MS. PARFITT: Objection. Page 91 1 A. I don't know that particular number, but - I just don't know that answer. 3 Q. Are you aware that the National Cancer Institute reviews the peer-reviewed literature as it relates to risk factors for ovarian cancer? 16 MS. PARFITT: Objection. Page 91 A. I don't know that particular number, but - I just don't know that answer. 3 Q. Are you aware that the National Cancer Institute reviews the peer-reviewed literature as it relates to risk factors for ovarian cancer? 4 Institute reviews the peer-reviewed literature as it relates to risk factors for ovarian cancer? 5 MS. PARFITT: Objection. Page 91 A. Yes. And I don't know how updated they A. Yes. And I don't know how updated they Page 93 A. Yes. And I don't know how updated they A. Yes. And I don't know how updated they Page 94 A. Yes. And I don't know how updated they A. Yes. And I don't know how updated they Page 95 A. I have to look at it.
2 Cancer Prevention (PDQ) - Health 3 Professional Version marked Exhibit 15.) 4 MR. ZELLERS: Take a look at Deposition 5 Exhibit 15. 5 Exhibit 15. 6 MS. PARFITT: Thank you. 7 BY MR. ZELLERS: 8 Q. Deposition Exhibit 15 is a publication 9 from the National Cancer Institute; is that 10 right? 11 A. It is. 12 Q. National Cancer Institute is a leading 13 health authority; is that right? 13 health authority; is that right? 14 A. Yes. 15 Q. It's a leading cancer research 16 institution in the world? 16 National Cancer Institute? 17 MS. PARFITT: Objection. Form. 18 A. Yes. 19 Q. Have you ever received a grant from the National Cancer Institute? 20 A. Ive applied. I have not received any. 21 I am applying again. 22 Q. They fund more cancer research than any organization in the world; correct? 23 MS. PARFITT: Objection. Page 91 A. I don't know that particular number, 2 but — I just don't know that answer. 3 Q. Are you aware that the National Cancer Institute reviews the peer-reviewed literature as 5 it relates to risk factors for ovarian cancer? 4 Institute reviews the peer-reviewed literature as 5 it relates to risk factors for ovarian cancer? 4 Institute reviews the peer-reviewed literature as 5 it relates to risk factors for ovarian cancer? 4 MS. PARFITT: Objection. Form. 2 MS. PARFITT: Objection. 2 MS. PARFITT: Objection. 3 MS. PARFITT: Objection. 4 MS. PARFITT: Objection. 4 MS. PARFITT: Objection. 5 MS. PARFITT: Objection. 5 MS. PARFITT: Objection. 6 MS. PARFITT: Objection. 6 MS. PARFITT: Objection. 7 MS. PARFITT: Objection. 8 A. Yes. I did look at this and my opinion — 9 Q. Did you cite to the CDC in your report or references? 9 A. I don't know that particular number, 2
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6 MS. PARFITT: Objection. Form. 6 Institute in your report or references?
The state of the s
8 are. Based on the document you've provided me, 8 Q. The National Cancer Institute, in fact,
9 they have four citations for perineal talc and 9 has done an analysis, a very detailed analysis
10 ovarian cancer. 10 which we have marked as Exhibit 15 to this
So, again, I'm not questioning the NCI's 11 deposition; correct?
12 motivation, but I am I am raising, what is the 12 MS. PARFITT: Objection to form.
13 quality of their judgment. 13 A. I don't think it's a detailed analysis
14 Q. Did you consider the CDC's 14 of perineal talc and ovarian cancer.
15 determination that talc is not a risk factor for 15 There is how many lines? We can look at it
ovarian cancer in formulating your opinions? 16 and read it together. It's, you know it's 15
17 A. Yes. 17 lines. And they have references 41 to 45, which
18 Q. Did you consider NIH's determination 18 is five references.
19 that talc is not a risk factor for ovarian cancer 19 So I don't know it is a detailed analysis.
20 in formulating your opinions? 20 Q. National Cancer Institute, one of the
21 A. Yes. Because they did not have 21 things that it does is to review peer-reviewed
22 sufficient information, based on what they 22 literature as it relates to risk factors for
23 provided in their PDQs. 23 ovarian cancer. Is that right?
24 Q. Did you consider National Cancer 24 MS. PARFITT: Objection. Form. 25 Institute's opinion or conclusion that talc is 25 A. It does do that.
25 Institute's opinion or conclusion that talc is 25 A. It does do that.

	Page 94		Page 96
1	Q. All right. This document, this	1	A. I don't know if it's the conclusion,
2	document that we're looking at from the National	2	but, yes, you read that part of the statement
3	Cancer Institute, Exhibit 15, was updated in	3	correctly.
4	January of 2019; is that right?	4	Q. Why would you rely on Health Canada,
5	A. Yeah. But it doesn't mean the review	5	but not these other public health organizations?
6	was updated, because it has no recent citations	6	MS. PARFITT: Objection. Misstates his
7	of studies that have been conducted.	7	testimony.
8	Q. We	8	A. In fact, I did rely on the Health
9	A. We should look at the citation. Let's	9	Canada when my report was conducted. So you
10	look at it, because we are discussing this	10	see I relied on the quality of the review and
11	document, so we should look at it in detail.	11	the breadth of my review, which had hundreds of
12	Q. Doctor, turn to Page 6.	12	studies, the breadth of review of biological
13	A. No. Let me finish. I'm not finished	13	plausibility, the breadth of review of, you know,
14	with this document.	14	animal studies, applying the Bradford Hill
15	MS. PARFITT: Go ahead. Let him	15	framework, and then forming an opinion.
16	finish.	16	Q. How are you done?
17	Q. Doctor, you have to answer my	17	A. No. I'm not done.
18	questions.	18	And the Health Canada Assessment came after
19	A. But I haven't answered it.	19	that. And it so happened their methodology
20	Q. My question is look at Page 6. Can you	20	methodology methodology and opinions are
21	do that?	21	consistent with mine.
22	A. Okay.	22	So it's not that I'm relying on that. I'm
23	Q. All right. Page 6 is a section on	23	just saying that they are consistent and they
24	perineal talc exposure; is that right?	24	came to the same conclusions.
25	A. Yes.	25	Q. What materials and analysis was done by
	Page 95		Page 97
1	Q. This is part of the National Cancer	1	the CDC in determining that talc is not a risk
2	Institute's publication on ovarian, fallopian	2	factor for ovarian cancer?
3	tube and primary peritoneal cancer prevention; is	3	MS. PARFITT: Objection. Form.
4	that right?	4	A. I don't have that.
5	A. Yes.	5	Q. What materials were reviewed and relied
6	Q. On Page 6, the first sentence under	6	upon by NIH in determining that talc is not a
7	perineal talc exposure states, "The weight of	7	risk factor for ovarian cancer?
8	evidence does not support an association between	8	A. References 41 to 45.
9	perineal talc exposure and an increased risk of	9	Q. How do you know that that's all that
10	ovarian cancer."	10	the NIH and National Cancer Institute reviewed?
11	Is that right?	11	A. Because that's what they cite.
12	A. Based on what? Based on these 41 to 45	12	Q. Have you been privy to the complete
13	citations? Which are an incomplete listing of	13	review and analysis of the National Cancer
14	studies and an incomplete review of the evidence.	14	Institute?
15	So I'm just stating that, yes, what is the	15	A. But you just stated that this was the
16	underlying basis?	16	complete review and analysis of the National
17	Q. Doctor	17	Cancer Institute?
18	MS. PARFITT: Wait. Let him finish.	18	Q. I'm asking you: Do you know what
19	He's in the middle of a sentence.	19	specific studies and materials were reviewed and
20	A. What is the underlying basis of this	20	what analysis was done by NIH and by the National
21	opinion?	21	Cancer Institute?
22	Q. Dr. Singh, my question is: Did I read	22	A. Yeah. These are the studies that were
23	the conclusion of the National Cancer Institute	23	reviewed.
24	correctly?	24	Q. You are assuming that this is the
	MS. PARFITT: Objection.	25	entire analysis and review that was done by the

Page 98 1 National Cancer Institute; is that right? 2 MS. PARFITT: Objection. Form. 3 A. I'm not assuming anything. I'm 4 assuming that, just as the conclusions that you 5 are assuming are definitive, I'm also, you know, 1 assessment prior to its publication? 2 A. No. 3 Q. Have you submitted any commandation of the properties	Page 100
2 MS. PARFITT: Objection. Form. 2 A. No. 3 A. I'm not assuming anything. I'm 3 Q. Have you submitted any comr 4 assuming that, just as the conclusions that you 4 Health Canada?	
3 A. I'm not assuming anything. I'm 3 Q. Have you submitted any comr 4 assuming that, just as the conclusions that you 4 Health Canada?	
4 assuming that, just as the conclusions that you 4 Health Canada?	
	ments to
l b are accuming are definitive. I'm also you know Ι b Δ No	
· · · · · · · · · · · · · · · · · · ·	
6 stating that these are the studies that they 6 Q. Do you intend to submit any c	comments to
7 relied on to form those conclusions. 7 Health Canada?	
8 So we can't pick and choose, assess 8 A. I don't know. I mean, it will d	
9 statement of the excerpt that you supports 9 on the timeline and I don't know what	
your opinion, but then not look at the underlying 10 timeline is and what my you know, 11 evidence base that supports that opinion. 11 haven't I haven't thought about it.	1
	nents by
, , , , , , , , , , , , , , , , , , , ,	
15 Q. And you did not consider the CDC's 15 MS. PARFITT: Objection. For 16 opinion in your report, did you? 16 A. Yes. I mean, you know, we lot	
16 Opinion in your report, did you? 17 A. I mean, CDC so let's just step back 17 draft assessments on regulatory. Then	
18 a little. 18 reason not to.	ies no
When I say CDC opinion, I mean, I'm looking 19 Q. Have you ever cited a draft as:	sessment
20 at original studies. I'm looking at data in 20 by a regulatory agency in any study the	
21 forming my opinion. I did look at what IARC 21 published?	lat you ve
22 considered and other agencies considered. 22 A. Oh, I've published 200 papers	and I
23 My opinion is based on my review and the 23 can't recall, you know, which one, but	
24 methodology and I was, you know, obviously, 24 that I have looked at draft assessment	
25 taking into account what agencies say, but 25 FDA.	s by the
	Page 101
1 agencies' opinion is not necessarily the 1 Q. Have you cited any?	
2 underlying basis of my causal opinion. 2 A. I can't recall and tell you that.	It'e
3 Q. Whether it's CDC, NIH, NCI or Health 3 just something I can't recall.	11.5
4 Canada; correct? 4 Q. Are you familiar with the pred	rautionary
5 A. Yeah. I mean, they're informing. I 5 principle?	autionary
6 want to look at their thinking and what is the 6 A. Yes.	
7 quality of their judgment on this. 7 Q. What is the precautionary print	nciple?
8 Q. You understand Health Canada has simply 8 A. It is to, you know, apply, as m	
9 produced a draft assessment; is that right? 9 understanding, is to warn when there	
10 MS. PARFITT: Objection. Form. 10 know, evidence of a hazard.	., , , ,
11 A. Yes. 11 Q. That's your understanding of t	he
12 Q. We are at the beginning of the public 12 precautionary principle?	-
13 comment period; is that right? 13 A. Yeah.	
14 A. I don't know the timeline of that. 14 Q. Do you understand that, as de	fined by
Q. Are you aware that Health Canada can 15 Health Canada, a precautionary principal 15	
16 take up to two years to take any action or no 16 taking a precautionary approach to	_
17 action at all? 17 decision-making that emphasizes the	need to take
18 A. Well, I mean, I was not asked a causal 18 timely preventative action even in the	
19 question on what to do about this. I was just 19 a full scientific demonstration of caus	se and
20 asked a question on causality. And I'm not sort 20 effect?	
21 of I'm not privy to their process. 21 A. If you're stating well, let's g	et
22 Q. How did you come to learn of the Health 22 the document out before we	
23 Canada Risk Assessment? 23 Q. Sure. Take a look at deposition	on
24 A. News, news documents. 24 Exhibit 16.	
25 Q. Were you involved in the risk 25 (Document entitled "Health	

1 Canada Decision-Making Framework for 2 Identifying, Assessing, and Managing Health 3 Risks - August 1, 2000" marked Exhibit 16.) 4 A. Okay. Can you point out which page? 5 Q. Sure. Take a look at Pages 8 and 9. 6 So we identify it for the record, Exhibit 16 is 7 the Health Canada Decision-Making Framework for 8 Identifying, Assessing and Managing Health Risk; 9 is that right? 10 A. Yes. 11 Q. If you go to Page 8 and 9, Section 1.3 12 are the underlying principles for Health Canada; 13 is that right? 14 MS. PARFITT: Objection. 15 MR. TISI: You're looking at the wrong 16 document. You're not looking at the draft 17 assessment. You're looking at the 18 MR. ZELLERS: Counsel, I am 18 Q. Is a guiding principle of the Health
Identifying, Assessing, and Managing Health Risks - August 1, 2000" marked Exhibit 16.) A. Okay. Can you point out which page? Q. Sure. Take a look at Pages 8 and 9. So we identify it for the record, Exhibit 16 is Identifying, Assessing and Managing Health Risk; is that right? Q. If you go to Page 8 and 9, Section 1.3 A. Yes. Q. If you go to Page 8 and 9, Section 1.3 In the underlying principles for Health Canada; is that right? MS. PARFITT: Objection. MR. TISI: You're looking at the draft assessment. You're looking at the MR. ZELLERS: Counsel, I am MR. ZELLERS: Counsel, I am Managing health risk is that decisions are ofte managing health risk is that decisions are ofte made in the presence of considerable scientific decisions are ofte made in the presence of considerable scientific decisions are ofter made in the presence of considerable scientific decisions are ofter made in the presence of considerable scientific decisions are ofter in the absence of a full scientific demonstration of cause and effect." Poblid I read that correctly? A. Okay. Q. Do you agree that the recommendation causation like is required in a court; correct? MS. PARFITT: Objection. A. But I mean, that's what they conclude, that there is a cause. We can look at the Heal Canada document. Canada document. Q. Is a guiding principle of the Health
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17 assessment. You're looking at the 18 MR. ZELLERS: Counsel, I am 19 Q. Is a guiding principle of the Health
18 MR. ZELLERS: Counsel, I am 18 Q. Is a guiding principle of the Health
19 MR. TISI: But you identified something 19 Canada Decision-Making and Assessment to
20 as something different than what it is. 20 precautionary approach?
21 MR. ZELLERS: I identified the document 21 MS. PARFITT: Objection. Form.
22 as Health Canada Decision-Making Framework for 22 A. Well, no. I mean, precautionary
23 Identifying, Assessing and Managing Health Risk. 23 they are just defining a precautionary approach
24 I'm reading the title of the document. 24 But when they assess talc for its whatever, yo
25 MR. TISI: Okay. I have it wrong. Go 25 know, the talcum powder products, their
Page 103 Page
1 ahead. 1 particular assessment clearly states it's causal.
2 MR. ZELLERS: That's okay. 2 And we should open that document. We shoul
3 A. Wherever we are. 3 talk about it in hypotheticals.
4 Q. No problem, Doctor. 4 Q. On what basis are you relying to state
5 MS. PARFITT: We'll orient ourselves. 5 that Health Canada did not use a precautionary
6 Q. Are we oriented? 6 approach in assessing talcum powder?
7 A. Yeah. I know the document. But the 7 MS. PARFITT: Objection. Form.
8 page number. 8 A. No. No. No. Let me answer that
9 Q. Look at Pages 8 and 9.
10 A. Okay. 10 You were asking about decision-making.
11 Q. 1.3 are the underlying principles for 11 Decision-making would be removal of talc, rer
12 Health Canada decision-making. 12 of that.
Do you see that? 13 But there's two parts to that question about
14 A. Yes. 14 cause and effect. So let's bring the document
15 Q. They list out a number of underlying 15 out and say where they state there is a causal
16 principles on Pages 8 and 9.
One of those is to use a precautionary 17 Why aren't you bringing that document out
18 approach; is that right? 18 I mean, you can't talk about documents withou
19 A. Yes. 19 documents.
20 Q. If you then turn to Page 11, at the 20 Q. Dr. Singh
21 bottom, they define use of a precautionary 21 A. Yeah.
22 approach; is that right? 22 Q do you have any basis to state
23 A. Yes. 23 that, in evaluating talcum powder, Health Cana
Q. Health Canada states in this document, 24 did not follow its underlying principle of using
25 which we've marked as Exhibit 16, "Use a 25 a precautionary approach?

	Page 106		Page 108
1	MS. PARFITT: Objection. Form.	1	A. No.
2	Misstates the evidence.	2	Q. Hold on. Stop. Stop.
3	A. Yeah. But that does not preclude at	3	A. Sure.
4	arriving at a causal opinion. Just because you	4	Q. Just so we're clear, the updated
5	have a precautionary approach, you can still	5	materials list is a list that was created by
6	arrive at causal opinion, which they did.	6	plaintiffs' counsel; correct?
7	So this is this principle is not	7	MS. PARFITT: It was based upon
8	inconsistent with their report on a causal	8	materials that we had either sent or we had sent
9	opinion.	9	that he also had; correct.
10	Q. The standard under a precautionary	10	MR. ZELLERS: This Exhibit 6 is a list
11	approach is that decisions can be made even in	11	of materials that were provided by plaintiffs'
12	the absence of a full scientific demonstration of	12	counsel to Dr. Singh, understanding that
13	cause and effect; correct?	13	Dr. Singh has testified that he independently had
14	MS. PARFITT: Objection. Form.	14	access to some of the materials.
15	A. That is a threshold, but that does not	15	MS. PARFITT: Correct. Including
16	preclude the determination of cause and effect,	16	Taher.
17	which has been done already.	17	THE WITNESS: Yeah. And some of them.
18	Q. Are you familiar with the Taher 2018	18	I added, such as some of the published articles
19	publication?	19	and Health Canada.
20	A. Taher. I don't know which one.	20	BY MR. ZELLERS:
21	Q. T-A-H-E-R.	21	Q. You have read the Taher 2018
22	A. Yes.	22	manuscript; is that right?
23	Q. Are you familiar with that publication?	23	A. I mean, I read the yeah, I mean,
24	A. Yeah. It was cited in the Health	24	primarily, I read their assessment in Health
25	Canada document.	25	Canada.
	Page 107		Page 109
1		1	
1	Q. Have you reviewed and analyzed that	1	MR. ZELLERS: Deposition Exhibit
2	publication?	2	well, strike that.
3	A. I mean, I reviewed it. I don't know if	3	Q. What you told me, when I asked you
4	I analyzed it.	4	about CDC and NIH and NCI, is you got to look at
5	What do you mean by "analyzed"?	5	the underlying documents, the underlying studies;
6	Q. You have not included it on your	6	is that right?
7	references or additional materials considered or	7 8	A. Yes.
8	updated materials; is that right?		Q. One of the underlying documents and
9	MS. PARFITT: Objection.	9	studies on which Health Canada reviewed was the
10	A. It was part of the Health Canada. It	10	Taher article; is that right?
11	should have been part, because it was part, in my	11 12	A. Yes.
12	mind, part of the Health Canada Assessment.	13	(Document entitled "Systematic
13	Q. Can you show me where	14	Review and Meta-Analysis of the Association
14	A. Well, I haven't.	15	between Perineal Use of Talc and Risk of
15	Q the Taher publication is listed in	16	Ovarian Cancer" marked Exhibit 17.)
16 17	your updated materials which we marked as	17	BY MR. ZELLERS:
	Exhibit 6? MS. DAREITT: For the record, we	18	Q. The Taher article is what we have
1.0	MS. PARFITT: For the record, we	19	marked as deposition Exhibit 17; is that right?
18	arouted this list Mr. Zellans and most of the		MS. PARFITT: Thank you.
19	created this list, Mr. Zellers, and part of the		· · · · · · · · · · · · · · · · · · ·
19 20	Canadian, just for form, and you can inquire.	20	MR. TISI: Is it Thayer or Taher?
19 20 21	Canadian, just for form, and you can inquire. MR. ZELLERS: That's okay.	20 21	MR. TISI: Is it Thayer or Taher? A. It is Taher, T-A-H-E-R.
19 20 21 22	Canadian, just for form, and you can inquire. MR. ZELLERS: That's okay. MS. PARFITT: But since we did create	20 21 22	MR. TISI: Is it Thayer or Taher? A. It is Taher, T-A-H-E-R. Q. Did you have access to the Taher 2018
19 20 21 22 23	Canadian, just for form, and you can inquire. MR. ZELLERS: That's okay. MS. PARFITT: But since we did create Exhibit No. 6, additional materials, we had	20 21 22 23	MR. TISI: Is it Thayer or Taher? A. It is Taher, T-A-H-E-R. Q. Did you have access to the Taher 2018 article before it was published?
19 20 21 22	Canadian, just for form, and you can inquire. MR. ZELLERS: That's okay. MS. PARFITT: But since we did create	20 21 22	MR. TISI: Is it Thayer or Taher? A. It is Taher, T-A-H-E-R. Q. Did you have access to the Taher 2018

Page 110 Page 112 1 2018 article? 1 Q. Why did you rely on this article, 2 Taher, Exhibit 17? 2 A. Yeah. I requested access from the 3 attorneys, if they had it. They provided it. 3 MS. PARFITT: Objection to form. 4 Q. So plaintiffs' attorneys provided you 4 A. I mean, when you say I relied on, I 5 with access to the article we've marked as 5 mean, I reviewed the, again, Health Canada Assessment. So none of this is in isolation. 6 Exhibit 17 prior to its publication; is that 6 7 right? 7 I mean, this is just a part of, you know, 8 8 the body of evidence. You know, my testimony A. Yeah. 9 MS. PARFITT: Objection. 9 relies on -- and my report relies on the evidence 10 A. I don't know if it has been published 10 cited there. 11 11 This is, you know, another meta-analysis 12 Q. Did you have access to the appendices that, you know, I reviewed the evidence in 12 13 or supplemental tables referenced in the Taher 13 slightly different ways and came to the same 14 publication? 14 conclusions and, you know, also did a causal 15 A. Yes, I did. 15 analysis. So it's sort of, you know, you have to 16 O. In your epidemiologic -- strike that. 16 review what evidence comes out. 17 Is the Taher publication, which we've marked 17 If another meta-analysis comes out tomorrow, as Exhibit 17, is that peer-reviewed? 18 then I would review it. 18 A. It's peer-reviewed, and I assume that 19 Q. Do you know the source of funding for 19 20 it's going to be published. And it was reviewed 20 this publication? 21 by Health Canada. So I mean, it is 21 A. I don't know. I mean, Health Canada or 22 peer-reviewed, is my understanding. 22 something else, I don't know that. I can't 23 It is -- I don't know the exact status of 23 answer that question. 24 24 Q. You're assuming that Health Canada is that manuscript. Q. What organization has peer-reviewed the 25 the source of funding for this publication? 25 Page 113 Page 111 1 Taher publication, Exhibit 17? 1 A. I don't know. I shouldn't answer that. 2 A. So I don't -- yeah, again, I take it --2 Q. Do you know the credentials of the I don't know the status of that manuscript, where authors of the Taher 2018 publication, 3 3 4 4 Exhibit 17? 5 5 Q. You do not know, one way or the other, A. I have no idea. 6 as to whether the Taher publication, Exhibit 17, 6 Q. Do you personally know any of the 7 has been peer-reviewed; is that right? 7 authors that are listed? 8 8 A. Yeah. Whether it's been accepted or A. No. 9 submitted or -- I don't know. 9 Q. Do you know whether or not any of the 10 Q. Are you finished? 10 authors of the Taher publication, as listed out on the first page of Exhibit 17, have conflicts 11 A. I don't know the status. I'm trying to 11 12 say that. 12 of interest? 13 Q. In your epidemiological work, outside 13 MS. PARFITT: Objection. of litigation, do you rely on articles that have 14 14 A. Not that -- I didn't -- again, I read not been peer-reviewed? the article. I don't know what their, you know, 15 15 A. Yes. Several times, we rely on 16 16 declarations are. Yeah. 17 articles. Several times, we actually request 17 And it does say it was conducted under 18 articles if it's key to something that we are 18 contract to Health Canada. So it seems like the 19 working on and we know that a particular 19 funding source is Health Canada. And let's look 20 investigator is active in that area and he may 20 at their source of funding. Q. Doctor, we'll never finish if you want 21 have. 21 to just go through and look at things. 22 So, yes, we actually -- sometimes we request 22 23 that. And the majority of the times people don't My specific question is whether or not you 23 24 provide their work until it's published. But 24 know whether or not any of the authors have 25 sometimes we get it. Yeah. 25 conflicts of interest?

	Page 114		Page 116
1	MS. PARFITT: Objection.	1	sentence. And I'll read it. Have you found
2	A. That's a very vague and broad question.	2	Page 41 of Exhibit 17?
3	I mean, conflicts of interest as it relates to	3	A. 41?
4	what?	4	Q. Yes. Page 41. Do you have that?
5	Q. Do you know?	5	A. Yeah. Yeah.
6	MS. PARFITT: Objection. Form.	6	Q. The very last
7	A. As it relates to what?	7	A. Yeah. I'm looking at it.
8	Q. You told me you don't know any of the	8	Q. Tell me if I read this correctly. "The
9	authors; right?	9	similarity of findings between studies published
10	A. Yeah.	10	prior to and after this point suggest asbestos
11	Q. I've now asked you if you know if any	11	contamination does not explain the positive
12	of the authors had conflicts of interest.	12	association between perineal use of talc powder
13	A. And I'm saying that I'm reading the	13	and risk of ovarian cancer."
14	article and I'm reading their declaration, and	14	Did I read that correctly?
15	that's the only way to find out that they have	15	A. Yes.
16	conflicts of interest, right.	16	Q. Do you disagree with the authors on
17	Q. I should be more precise.	17	that point?
18	A. Yeah.	18	A. Let me just read it.
19	Q. Of your own personal knowledge, do you	19	Well, I mean, to the extent that they are
20	know whether or not any of the authors have	20	aware that asbestos does not contaminate talc
21	conflicts of interest?	21	is not contaminated with asbestos, I do agree.
22	A. That's a separate	22	But, again, I have, you know, obviously more
23	MS. PARFITT: Objection.	23	information on that.
24	A. So what I'm trying to say is, you know,	24	Q. On Page 25 of Exhibit 17, the Taher
25	when you ask about conflicts of interest, if you	25	2018 article, is a table entitled "Summary of
	Page 115		Page 117
1	want to ask about my article, you'd have to go	1	Evidence for Each of the Hill Criteria of
2	and read the article and see that, what is stated	2	Causation as Applied to Perineal Application of
3	there.	3	Talc and Ovarian Cancer."
4	So that's what I'm trying to answer when you	4	Is that right?
5	ask. I'm trying to be honest and truthful about	5	A. Yes.
6	my answers.	6	Q. One of the Hill criteria is
7	MR. KLATT: Objection; nonresponsive.	7	consistency; is that right?
8	MR. ZELLERS: Move to strike as	8	MS. PARFITT: Objection. Form.
9	nonresponsive.	9	A. Yes.
10	THE WITNESS: I didn't understand the	10	Q. Looking at authors' statement on
11	question.	11	consistency, it states, "15 out of the 30 studies
12	MR. LOCKE: We all have questions to	12	reported positive and significant associations."
13	ask this witness. We're not going to make the	13	Is that right?
14	seven hours with these answers that do not answer	14	A. Yes.
15	the questions.	15	Q. 15 out of 30, that's 50 percent; is
16	THE WITNESS: Maybe I'm not	16	that right?
17	understanding the question. I'm sorry. It's not	17	MS. PARFITT: Objection. Form.
18	that I'm trying to	18	A. Yeah. But I have I disagree with
19	Q. Dr. Singh, the authors of the Taher	19	their interpretation of consistency as being, you
20	paper concluded that the evidence suggests that	20	know, statistically significant. I mean, you
21	asbestos contamination does not explain the	21	know, my assessment is, you know, estimates
22	positive association between perineal use of talc	22	towards greater than one.
23	powder and ovarian cancer; is that right?	23	MR. ZELLERS: Move to strike as
24	A. Where do you	24	nonresponsive.
Z 4			
25	Q. Take a look at Page 41, the last	25	Q. My question was: 15 out of 30 is

	D 110		D 100
	Page 118		Page 120
1	50 percent?	1	consistent evidence. There are studies that
2	A. Yes.	2	provide dose-response and other studies that
3	MS. PARFITT: Objection. Let me	3	don't.
4	object, please.	4	Q. You currently work for the University
5	Q. That's no better than a coin toss;	5	of Massachusetts; is that right?
6	correct?	6	A. Yes.
7	MS. PARFITT: Object to the form.	7	Q. You work for both the medical school
8	A. It is 50 percent.	8	and the medical center; is that right?
9	Q. Would you say that 15 out of 30 means	9	A. Yes.
10	there are consistent results across studies?	10	Q. Are you aware that the University of
11	A. Well, I mean, again, my definition of	11	Massachusetts does not claim that talcum powder
12	inconsistency, as noted in my report, is	12	causes ovarian cancer?
13	different from theirs.	13	MS. PARFITT: Objection. Form.
14	Q. These are just the case control	14	A. I don't know what they're listed on
15	studies; is that right?	15	their website. I'm not sure they provide any
16	A. When you say they just say 30	16	information sheet that I am aware of.
17	studies. Yeah.	17	(Printout entitled "Ovarian
18	Q. These are case-control studies; is that	18	Cancer: Risk Factors" marked Exhibit 18.)
19	right?	19	BY MR. ZELLERS:
20	MS. PARFITT: Objection. Form.	20	Q. Take a look, if you will, at Deposition
21	A. Well, they're both, right? Case	21	Exhibit 18.
22	control and core.	22	MR. TISI: What is 16?
23	Q. The authors in Taher also recognize	23	MR. ZELLERS: Exhibit 16 was the Health
24	that there's no consistent dose-response across	24	Canada Decision-Making Framework. It's right
25	studies; is that right?	25	here.
	Page 119		Page 121
1		1	
	MS. PARFITT: Objection. Form.		MR. TISI: Oh. I have that, Counsel.
1 2 3		1 2 3	
2	MS. PARFITT: Objection. Form. A. Well, let me look at the dose-response section.	2	MR. TISI: Oh. I have that, Counsel. Thank you. BY MR. ZELLERS:
2 3 4	MS. PARFITT: Objection. Form. A. Well, let me look at the dose-response section. Q. Page 21. And I'm looking at the very	2 3 4	MR. TISI: Oh. I have that, Counsel. Thank you. BY MR. ZELLERS: Q. Have you had an opportunity, Dr. Singh,
2 3	MS. PARFITT: Objection. Form. A. Well, let me look at the dose-response section. Q. Page 21. And I'm looking at the very last sentence above Section 3.3.2.	2 3	MR. TISI: Oh. I have that, Counsel. Thank you. BY MR. ZELLERS: Q. Have you had an opportunity, Dr. Singh, to review Deposition Exhibit 18?
2 3 4 5	MS. PARFITT: Objection. Form. A. Well, let me look at the dose-response section. Q. Page 21. And I'm looking at the very last sentence above Section 3.3.2. A. Tell me, which page number?	2 3 4 5	MR. TISI: Oh. I have that, Counsel. Thank you. BY MR. ZELLERS: Q. Have you had an opportunity, Dr. Singh, to review Deposition Exhibit 18? A. Yes.
2 3 4 5 6 7	MS. PARFITT: Objection. Form. A. Well, let me look at the dose-response section. Q. Page 21. And I'm looking at the very last sentence above Section 3.3.2. A. Tell me, which page number? Q. Sure. Page 21.	2 3 4 5 6 7	MR. TISI: Oh. I have that, Counsel. Thank you. BY MR. ZELLERS: Q. Have you had an opportunity, Dr. Singh, to review Deposition Exhibit 18? A. Yes. Q. This is a website from the University
2 3 4 5 6 7 8	MS. PARFITT: Objection. Form. A. Well, let me look at the dose-response section. Q. Page 21. And I'm looking at the very last sentence above Section 3.3.2. A. Tell me, which page number? Q. Sure. Page 21. A. We do have to slow down so that I can	2 3 4 5 6 7 8	MR. TISI: Oh. I have that, Counsel. Thank you. BY MR. ZELLERS: Q. Have you had an opportunity, Dr. Singh, to review Deposition Exhibit 18? A. Yes. Q. This is a website from the University of Massachusetts Memorial Healthcare; is that
2 3 4 5 6 7 8 9	MS. PARFITT: Objection. Form. A. Well, let me look at the dose-response section. Q. Page 21. And I'm looking at the very last sentence above Section 3.3.2. A. Tell me, which page number? Q. Sure. Page 21. A. We do have to slow down so that I can move between pages, if you don't mind.	2 3 4 5 6 7 8 9	MR. TISI: Oh. I have that, Counsel. Thank you. BY MR. ZELLERS: Q. Have you had an opportunity, Dr. Singh, to review Deposition Exhibit 18? A. Yes. Q. This is a website from the University of Massachusetts Memorial Healthcare; is that right?
2 3 4 5 6 7 8 9	MS. PARFITT: Objection. Form. A. Well, let me look at the dose-response section. Q. Page 21. And I'm looking at the very last sentence above Section 3.3.2. A. Tell me, which page number? Q. Sure. Page 21. A. We do have to slow down so that I can move between pages, if you don't mind. Yes.	2 3 4 5 6 7 8 9	MR. TISI: Oh. I have that, Counsel. Thank you. BY MR. ZELLERS: Q. Have you had an opportunity, Dr. Singh, to review Deposition Exhibit 18? A. Yes. Q. This is a website from the University of Massachusetts Memorial Healthcare; is that right? A. Yes.
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2 3 4 5 6 7 8 9 10 11	MS. PARFITT: Objection. Form. A. Well, let me look at the dose-response section. Q. Page 21. And I'm looking at the very last sentence above Section 3.3.2. A. Tell me, which page number? Q. Sure. Page 21. A. We do have to slow down so that I can move between pages, if you don't mind. Yes. Q. This is in the section "Evidence from Human Studies"; correct?	2 3 4 5 6 7 8 9 10 11	MR. TISI: Oh. I have that, Counsel. Thank you. BY MR. ZELLERS: Q. Have you had an opportunity, Dr. Singh, to review Deposition Exhibit 18? A. Yes. Q. This is a website from the University of Massachusetts Memorial Healthcare; is that right? A. Yes. Q. Are you familiar with the website? A. I mean, overall website, but not this
2 3 4 5 6 7 8 9 10 11 12 13	MS. PARFITT: Objection. Form. A. Well, let me look at the dose-response section. Q. Page 21. And I'm looking at the very last sentence above Section 3.3.2. A. Tell me, which page number? Q. Sure. Page 21. A. We do have to slow down so that I can move between pages, if you don't mind. Yes. Q. This is in the section "Evidence from Human Studies"; correct? A. Okay.	2 3 4 5 6 7 8 9 10 11 12	MR. TISI: Oh. I have that, Counsel. Thank you. BY MR. ZELLERS: Q. Have you had an opportunity, Dr. Singh, to review Deposition Exhibit 18? A. Yes. Q. This is a website from the University of Massachusetts Memorial Healthcare; is that right? A. Yes. Q. Are you familiar with the website? A. I mean, overall website, but not this particular document.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	MS. PARFITT: Objection. Form. A. Well, let me look at the dose-response section. Q. Page 21. And I'm looking at the very last sentence above Section 3.3.2. A. Tell me, which page number? Q. Sure. Page 21. A. We do have to slow down so that I can move between pages, if you don't mind. Yes. Q. This is in the section "Evidence from Human Studies"; correct? A. Okay. Q. Is that a yes? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. TISI: Oh. I have that, Counsel. Thank you. BY MR. ZELLERS: Q. Have you had an opportunity, Dr. Singh, to review Deposition Exhibit 18? A. Yes. Q. This is a website from the University of Massachusetts Memorial Healthcare; is that right? A. Yes. Q. Are you familiar with the website? A. I mean, overall website, but not this particular document. Q. On the second page of Exhibit 18, there's a statement by your employer, the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. PARFITT: Objection. Form. A. Well, let me look at the dose-response section. Q. Page 21. And I'm looking at the very last sentence above Section 3.3.2. A. Tell me, which page number? Q. Sure. Page 21. A. We do have to slow down so that I can move between pages, if you don't mind. Yes. Q. This is in the section "Evidence from Human Studies"; correct? A. Okay. Q. Is that a yes? A. Yes. Q. The statement by the authors, "When conducted, findings from trend analyses were not consistent." Is that right? A. The last line?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. TISI: Oh. I have that, Counsel. Thank you. BY MR. ZELLERS: Q. Have you had an opportunity, Dr. Singh, to review Deposition Exhibit 18? A. Yes. Q. This is a website from the University of Massachusetts Memorial Healthcare; is that right? A. Yes. Q. Are you familiar with the website? A. I mean, overall website, but not this particular document. Q. On the second page of Exhibit 18, there's a statement by your employer, the University of Massachusetts, on use of talcum powder. Do you see that? A. Yes. Q. The statement is, "It's not clear if
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. PARFITT: Objection. Form. A. Well, let me look at the dose-response section. Q. Page 21. And I'm looking at the very last sentence above Section 3.3.2. A. Tell me, which page number? Q. Sure. Page 21. A. We do have to slow down so that I can move between pages, if you don't mind. Yes. Q. This is in the section "Evidence from Human Studies"; correct? A. Okay. Q. Is that a yes? A. Yes. Q. The statement by the authors, "When conducted, findings from trend analyses were not consistent." Is that right? A. The last line? Q. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. TISI: Oh. I have that, Counsel. Thank you. BY MR. ZELLERS: Q. Have you had an opportunity, Dr. Singh, to review Deposition Exhibit 18? A. Yes. Q. This is a website from the University of Massachusetts Memorial Healthcare; is that right? A. Yes. Q. Are you familiar with the website? A. I mean, overall website, but not this particular document. Q. On the second page of Exhibit 18, there's a statement by your employer, the University of Massachusetts, on use of talcum powder. Do you see that? A. Yes. Q. The statement is, "It's not clear if using talcum powder on the genital area raises
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. PARFITT: Objection. Form. A. Well, let me look at the dose-response section. Q. Page 21. And I'm looking at the very last sentence above Section 3.3.2. A. Tell me, which page number? Q. Sure. Page 21. A. We do have to slow down so that I can move between pages, if you don't mind. Yes. Q. This is in the section "Evidence from Human Studies"; correct? A. Okay. Q. Is that a yes? A. Yes. Q. The statement by the authors, "When conducted, findings from trend analyses were not consistent." Is that right? A. The last line? Q. Yes. A. Yes. But the criteria for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. TISI: Oh. I have that, Counsel. Thank you. BY MR. ZELLERS: Q. Have you had an opportunity, Dr. Singh, to review Deposition Exhibit 18? A. Yes. Q. This is a website from the University of Massachusetts Memorial Healthcare; is that right? A. Yes. Q. Are you familiar with the website? A. I mean, overall website, but not this particular document. Q. On the second page of Exhibit 18, there's a statement by your employer, the University of Massachusetts, on use of talcum powder. Do you see that? A. Yes. Q. The statement is, "It's not clear if using talcum powder on the genital area raises the risk for ovarian cancer. Talk with your

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Sonal Singh, M.D., M.P.H.

Page 122 Page 124 1 A. Yes, you did. 1 take a look at Exhibit 2 or Exhibit 10, whichever 2 Q. Why doesn't your institution list talc 2 is easier for you. 3 exposure as a risk factor for ovarian cancer? 3 A. Page 66? 4 MS. PARFITT: Objection. Misstates the 4 Q. Yes. Your conclusion. 5 5 A. Yes. evidence. 6 A. So, yeah, I mean, first of all, this 6 Q. You state that peritoneal use of talcum 7 is -- I've seen this the first time here, but as 7 powder products can cause ovarian cancer; 8 you can see, again, this is -- we have to go to 8 correct? 9 9 Page 3 of 4 and it's medical reviewers and they A. Yes. 10 are, you know, basing their opinion on whatever. 10 Q. Is it your opinion that it does cause This was done in 2013. 11 11 ovarian cancer or just that it can? MS. PARFITT: Objection to form. 12 So it depends on the -- it's not that, you 12 13 know, my medical, you know, employer is listing 13 A. I don't know the semantics of what 14 it. Obviously, it's listed there. 14 would be -- if -- semantics of can and does. I 15 And but it's based on the quality of the 15 mean, you can explain to me. Maybe my English is 16 evidence. This was reviewed on 2016, and it was 16 not as good as yours. 17 reviewed by, as you see, the credentials of --17 Q. What type of exposure causes ovarian did they review the -- did they review the 18 18 cancer? 19 biological evidence? Did they have any 19 A. Perineal application. So I mean, are 20 additional information? 20 you asking specific to talc? 21 So I don't disagree with their opinion, I'm 21 Q. Yes. With respect to talc exposure, 22 22 what type of talc exposure causes ovarian cancer? just saying. MS. PARFITT: Objection. Form. 23 Q. Dr. Singh, do you recommend to your own 23 24 patients that they avoid talcum powder use? 24 A. You know, perineal application of talc 25 A. Now, I do. 25 can, you know, use of talc. Page 123 Page 125 1 Q. When did you begin doing that? 1 Q. What types of -- strike that. 2 What types of talcum powder cause ovarian 2 A. Last year. 3 Q. Do you ask them if they use talcum 3 cancer? powder as part of a routine screening? MS. PARFITT: Objection. Form. 4 4 5 A. In people that -- sorry. 5 A. So, again, I -- I -- my causal question In patients that I talk about ovarian 6 6 was the use of talcum powder products and ovarian 7 7 cancer. I did not disaggregate between X and Y 8 8 Q. Is that something that you began doing and Z in terms of, you know, this type of talcum 9 9 powder product. over the past year? 10 10 A. I would say sometime last year. Q. What type of ovarian cancer does talcum Q. What about patients with a long history 11 11 powder cause? 12 of use? Do you consider them at elevated risk of 12 MS. PARFITT: Objection. Form. 13 developing cancer? 13 A. Talcum powder products are, you know, causally linked to the development of ovarian 14 MS. PARFITT: Objection. Form. 14 A. So I haven't thought about it that way. 15 cancer, but the link is strongest for serous 15 16 I mean, you know, when that discussion about 16 epithelial ovarian cancer. 17 ovarian cancer comes up, we talk about risk 17 Q. Any other types of ovarian cancer that 18 factors and, you know, I recommended that. 18 you believe talcum powder causes? 19 Q. Have you ever recommended prophylactic 19 MS. PARFITT: Objection. Form. surgery to remove the fallopian tubes and ovaries 20 20 A. You know, other studies have provided, that you think -- patients that you think may 21 you know, causal links to borderline, you know, 21 other tumors. But, you know, it's mainly the 22 have had long-term exposure to talc? 22 23 MS. PARFITT: Objection. Form. 23 epithelial ovarian cancer. 24 A. No. 24 Q. What dose of talcum powder is required 25 Q. Causation. On Page 66 of your report, 25 to cause ovarian cancer?

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Page 126
                                                                                                      Page 128
            MS. PARFITT: Objection. Form.
 1
                                                            1
                                                                     Q. You did not conduct a meta-analysis
 2
                                                            2
         A. I examined, you know, the causal link
                                                                 here; is that right?
 3
      between talcum powder products and ovarian cancer
                                                            3
                                                                     A. Yes. And I -- partly pragmatic
 4
      as the data was available in the available
                                                            4
                                                                 reasons. Partly, there were so many other
 5
      studies. You know. I could not -- there was
                                                            5
                                                                 meta-analyses that I, you know -- although I
 6
      no -- I mean, there was data on
                                                            6
                                                                 would have done things a little bit differently,
 7
      dose-responsiveness, and we can discuss that.
                                                            7
                                                                 and I just didn't feel the need for one more
 8
         But, you know, I don't know if it's a single
                                                            8
                                                                 meta-analysis that would be informative.
 9
      application or it's 20 years. I mean, it is
                                                            9
                                                                     Q. What was your methodology for focusing
10
      regular use and that would cause it.
                                                           10
                                                                 on certain studies or excluding other studies?
11
         O. It's correct that you have not
                                                           11
                                                                     A. So I'm not aware that I excluded
      evaluated specifically what dose of talcum powder
12
                                                           12
                                                                 certain studies, because I, as I compare, I have
13
      is required to cause ovarian cancer; correct?
                                                           13
                                                                 included all the epidemiologic studies that are
14
            MS. PARFITT: Object to form.
                                                           14
                                                                 here. There's always a possibility that once,
15
         A. Yeah. I mean, I don't know a specific
                                                           15
                                                                 you know, when you do a review, that you may
16
      dose that would cause ovarian cancer.
                                                           16
                                                                 have.
17
         O. What was your methodology for
                                                           17
                                                                     But, you know, I included all the relevant
18
      concluding that talc causes ovarian cancer or, I
                                                           18
                                                                 case-control studies and the cohort studies and
19
      guess to be more precision, serous ovarian
                                                           19
                                                                 the systematic review and meta-analysis that I
2.0
      cancer?
                                                           20
                                                                 identified.
21
         A. Yeah. I mean, mainly --
                                                           21
                                                                     And, yeah, I mean, I may have weighed
2.2
            MS. PARFITT: Objection.
                                                           22
                                                                 studies differently based on their quality,
23
         A. Yeah. Epithelial ovarian cancer.
                                                           23
                                                                 validity and reliability.
         Q. What was your methodology?
24
                                                           24
                                                                     Q. That's how you tried to make a
25
         A. So, yeah, I did, you know -- so prior
                                                           25
                                                                 distinction?
                                           Page 127
                                                                                                      Page 129
 1
      to that, I was aware of systematic reviews and
                                                            1
                                                                     A. Yeah.
 2
                                                            2
      other reviews in this area.
                                                                     Q. Do you believe the standard for proving
 3
         So I, as a broad -- you know, we should look
                                                            3
                                                                 causation in the scientific literature is the
 4
      at the methods section of this report.
                                                            4
                                                                 same as the one that applies in litigation?
         Do you want to look at the methods?
 5
                                                            5
                                                                        MS. PARFITT: Objection. Form.
 6
         Q. Well, if you have to. I mean, my
                                                            6
                                                                     A. Yeah. I mean, the standard for
 7
      question was just simply: What was your
                                                            7
                                                                 causation, you know, is -- at least I was
 8
                                                            8
      methodology for concluding that talc causes
                                                                 applying the same standard.
 9
      epithelial ovarian cancer?
                                                            9
                                                                     Q. Are you familiar with the FDA analysis
10
            MS. PARFITT: Dr. Singh, anytime you
                                                           10
                                                                 of the Bradford Hill factors and that they have
11
      need to consult your report.
                                                           11
                                                                 concluded that causation is not established with
12
          A. Yeah. I mean, the methodology was, you
                                                           12
                                                                 respect to talc and ovarian cancer?
13
      know, gathering lines of evidence. You know,
                                                           13
                                                                        MS. PARFITT: Objection. Misstates the
14
      assessing for relevance, reliability and, you
                                                           14
                                                                 evidence.
15
      know, again, assembling other lines of evidence
                                                           15
                                                                     A. I am aware of a FDA letter. I'm not
16
      for animal, human studies, the constituents of
                                                           16
                                                                 sure that there's a Bradford Hill analysis. And
17
      talc. And then assessing them within an analytic
                                                           17
                                                                 if you can share that with me, that would be --
18
      framework, the Bradford Hill, and then, you know,
                                                           18
                                                                     Q. Please review Deposition Exhibit 19.
19
      providing a weight-of-evidence opinion based on
                                                           19
                                                                          (Letter dated April 1, 2014
20
      my professional judgment.
                                                           20
                                                                    marked Exhibit 19.)
21
         Q. In other cases in which you've been
                                                           21
                                                                        MS. PARFITT: Thank you.
22
      retained as an expert, you've conducted a
                                                           22
                                                                 BY MR. ZELLERS:
23
      meta-analysis of the available data to reach a
                                                           23
                                                                     Q. Deposition Exhibit 19 is a letter from
24
      conclusion about the relative risk: correct?
                                                           24
                                                                 the FDA to Sam Epstein, dated April 1st of 2014;
25
         A. I have.
                                                           25
                                                                 is that right?
```

	Page 130		Page 132
1	A. Yes.	1	MS. PARFITT: Objection. Form.
2	Q. And when I say "dated," there's a stamp	2	A. So just to clarify, where do they say
3	at the top that says April 1, 2014; correct?	3	they apply the Bradford Hill in this document?
4	A. Yes.	4	Q. You're familiar with the Bradford Hill
5	Q. Have you reviewed this FDA analysis	5	criteria; is that right?
6	before today?	6	A. Yes. I use it, but in this FDA
7	A. Yes. I have reviewed the letter.	7	document, where does it state they apply the
8	Yeah.	8	Q. It is one of the criteria for
9	Q. On Page 4 of the FDA document, at the	9	consistency across studies. Is that a Bradford
10	bottom, do you see that?	10	Hill criteria?
11	A. I do.	11	A. But exactly they don't go through all
12	Q. The FDA noted that selection bias	12	of them. So I don't know if they did a Bradford
13	and/or uncontrolled confounding result in	13	Hill. So how can I just assume that? They don't
14	spurious positive associations between talc use	14	talk about, you know, specificity. They don't
15	and ovarian cancer; is that right?	15	talk about strength of association. So I can't
16	MS. PARFITT: Objection. Form.	16	assume that they're applying Bradford Hill.
17	A. Yes. That's what they conclude.	17	Q. IARC did address the Bradford Hill
18	Q. The FDA notes a lack of consistency in	18	considerations; is that right?
19	the study results; is that right?	19	A. Yes. In the year 2005. That was
20	MS. PARFITT: Objection.	20	around 15 years ago.
21	A. Yes. And this was conducted in, I	21	Q. IARC rejected classification of talc as
22	don't know, 2014, 2013.	22	carcinogenic and, instead, assigned it to the
23	Q. The FDA specifically states, "Results	23	classification of possibly carcinogenic to
24	of case-control studies do not demonstrate a	24	humans; is that right?
25	consistent positive association across studies";	25	MS. PARFITT: Objection. Misstates the
23	consistent positive association across studies,	23	WB. 17th 111. Objection. Whistates the
	Page 131		Page 133
1	is that right?	1	evidence.
2	is that right? A. Yes. That's what they state.	2	evidence. A. So, again, you know, just clarifying
2 3	is that right? A. Yes. That's what they state. Q. The FDA also states that,	2	evidence. A. So, again, you know, just clarifying that this was done in 2005, with evidence that
2 3 4	is that right? A. Yes. That's what they state. Q. The FDA also states that, "Dose-response evidence is lacking"; is that	2 3 4	evidence. A. So, again, you know, just clarifying that this was done in 2005, with evidence that has accumulated since then. And I wouldn't
2 3 4 5	is that right? A. Yes. That's what they state. Q. The FDA also states that, "Dose-response evidence is lacking"; is that right?	2 3 4 5	evidence. A. So, again, you know, just clarifying that this was done in 2005, with evidence that has accumulated since then. And I wouldn't classify it I have served on IARC panels, and
2 3 4 5 6	is that right? A. Yes. That's what they state. Q. The FDA also states that, "Dose-response evidence is lacking"; is that right? MS. PARFITT: Objection.	2 3 4 5 6	evidence. A. So, again, you know, just clarifying that this was done in 2005, with evidence that has accumulated since then. And I wouldn't classify it I have served on IARC panels, and I'm very familiar with their process. They don't
2 3 4 5 6 7	is that right? A. Yes. That's what they state. Q. The FDA also states that, "Dose-response evidence is lacking"; is that right? MS. PARFITT: Objection. A. Where is that? I'm sorry.	2 3 4 5 6 7	evidence. A. So, again, you know, just clarifying that this was done in 2005, with evidence that has accumulated since then. And I wouldn't classify it I have served on IARC panels, and I'm very familiar with their process. They don't reject anything. They classify drugs in the
2 3 4 5 6 7 8	is that right? A. Yes. That's what they state. Q. The FDA also states that, "Dose-response evidence is lacking"; is that right? MS. PARFITT: Objection. A. Where is that? I'm sorry. Q. Look at Paragraph 3 at the bottom of	2 3 4 5 6 7 8	evidence. A. So, again, you know, just clarifying that this was done in 2005, with evidence that has accumulated since then. And I wouldn't classify it I have served on IARC panels, and I'm very familiar with their process. They don't reject anything. They classify drugs in the particular categories that they're supposed to
2 3 4 5 6 7 8 9	is that right? A. Yes. That's what they state. Q. The FDA also states that, "Dose-response evidence is lacking"; is that right? MS. PARFITT: Objection. A. Where is that? I'm sorry. Q. Look at Paragraph 3 at the bottom of Page 4.	2 3 4 5 6 7 8	evidence. A. So, again, you know, just clarifying that this was done in 2005, with evidence that has accumulated since then. And I wouldn't classify it I have served on IARC panels, and I'm very familiar with their process. They don't reject anything. They classify drugs in the particular categories that they're supposed to be.
2 3 4 5 6 7 8 9	is that right? A. Yes. That's what they state. Q. The FDA also states that, "Dose-response evidence is lacking"; is that right? MS. PARFITT: Objection. A. Where is that? I'm sorry. Q. Look at Paragraph 3 at the bottom of Page 4. A. Yes.	2 3 4 5 6 7 8 9	evidence. A. So, again, you know, just clarifying that this was done in 2005, with evidence that has accumulated since then. And I wouldn't classify it I have served on IARC panels, and I'm very familiar with their process. They don't reject anything. They classify drugs in the particular categories that they're supposed to be. So it was actually classified as possibly
2 3 4 5 6 7 8 9 10	is that right? A. Yes. That's what they state. Q. The FDA also states that, "Dose-response evidence is lacking"; is that right? MS. PARFITT: Objection. A. Where is that? I'm sorry. Q. Look at Paragraph 3 at the bottom of Page 4. A. Yes. Q. The FDA further concludes that, "A	2 3 4 5 6 7 8 9 10	evidence. A. So, again, you know, just clarifying that this was done in 2005, with evidence that has accumulated since then. And I wouldn't classify it I have served on IARC panels, and I'm very familiar with their process. They don't reject anything. They classify drugs in the particular categories that they're supposed to be. So it was actually classified as possibly carcinogenic.
2 3 4 5 6 7 8 9 10 11	is that right? A. Yes. That's what they state. Q. The FDA also states that, "Dose-response evidence is lacking"; is that right? MS. PARFITT: Objection. A. Where is that? I'm sorry. Q. Look at Paragraph 3 at the bottom of Page 4. A. Yes. Q. The FDA further concludes that, "A cogent biological mechanism by which talc might	2 3 4 5 6 7 8 9 10 11	evidence. A. So, again, you know, just clarifying that this was done in 2005, with evidence that has accumulated since then. And I wouldn't classify it I have served on IARC panels, and I'm very familiar with their process. They don't reject anything. They classify drugs in the particular categories that they're supposed to be. So it was actually classified as possibly carcinogenic. Q. Take a look at Exhibit 20.
2 3 4 5 6 7 8 9 10 11 12 13	is that right? A. Yes. That's what they state. Q. The FDA also states that, "Dose-response evidence is lacking"; is that right? MS. PARFITT: Objection. A. Where is that? I'm sorry. Q. Look at Paragraph 3 at the bottom of Page 4. A. Yes. Q. The FDA further concludes that, "A cogent biological mechanism by which talc might lead to ovarian cancer is lacking"; is that	2 3 4 5 6 7 8 9 10 11 12	evidence. A. So, again, you know, just clarifying that this was done in 2005, with evidence that has accumulated since then. And I wouldn't classify it I have served on IARC panels, and I'm very familiar with their process. They don't reject anything. They classify drugs in the particular categories that they're supposed to be. So it was actually classified as possibly carcinogenic. Q. Take a look at Exhibit 20. (IARC Classifications marked
2 3 4 5 6 7 8 9 10 11 12 13 14	is that right? A. Yes. That's what they state. Q. The FDA also states that, "Dose-response evidence is lacking"; is that right? MS. PARFITT: Objection. A. Where is that? I'm sorry. Q. Look at Paragraph 3 at the bottom of Page 4. A. Yes. Q. The FDA further concludes that, "A cogent biological mechanism by which talc might lead to ovarian cancer is lacking"; is that right?	2 3 4 5 6 7 8 9 10 11 12 13	evidence. A. So, again, you know, just clarifying that this was done in 2005, with evidence that has accumulated since then. And I wouldn't classify it I have served on IARC panels, and I'm very familiar with their process. They don't reject anything. They classify drugs in the particular categories that they're supposed to be. So it was actually classified as possibly carcinogenic. Q. Take a look at Exhibit 20. (IARC Classifications marked Exhibit 20.)
2 3 4 5 6 7 8 9 10 11 12 13 14 15	is that right? A. Yes. That's what they state. Q. The FDA also states that, "Dose-response evidence is lacking"; is that right? MS. PARFITT: Objection. A. Where is that? I'm sorry. Q. Look at Paragraph 3 at the bottom of Page 4. A. Yes. Q. The FDA further concludes that, "A cogent biological mechanism by which talc might lead to ovarian cancer is lacking"; is that right? MS. PARFITT: Objection to form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	evidence. A. So, again, you know, just clarifying that this was done in 2005, with evidence that has accumulated since then. And I wouldn't classify it I have served on IARC panels, and I'm very familiar with their process. They don't reject anything. They classify drugs in the particular categories that they're supposed to be. So it was actually classified as possibly carcinogenic. Q. Take a look at Exhibit 20. (IARC Classifications marked Exhibit 20.) BY MR. ZELLERS:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	is that right? A. Yes. That's what they state. Q. The FDA also states that, "Dose-response evidence is lacking"; is that right? MS. PARFITT: Objection. A. Where is that? I'm sorry. Q. Look at Paragraph 3 at the bottom of Page 4. A. Yes. Q. The FDA further concludes that, "A cogent biological mechanism by which talc might lead to ovarian cancer is lacking"; is that right? MS. PARFITT: Objection to form. A. Yeah. But it also concludes, in the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	evidence. A. So, again, you know, just clarifying that this was done in 2005, with evidence that has accumulated since then. And I wouldn't classify it I have served on IARC panels, and I'm very familiar with their process. They don't reject anything. They classify drugs in the particular categories that they're supposed to be. So it was actually classified as possibly carcinogenic. Q. Take a look at Exhibit 20. (IARC Classifications marked Exhibit 20.) BY MR. ZELLERS: Q. Deposition Exhibit 20 are the IARC
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	is that right? A. Yes. That's what they state. Q. The FDA also states that, "Dose-response evidence is lacking"; is that right? MS. PARFITT: Objection. A. Where is that? I'm sorry. Q. Look at Paragraph 3 at the bottom of Page 4. A. Yes. Q. The FDA further concludes that, "A cogent biological mechanism by which talc might lead to ovarian cancer is lacking"; is that right? MS. PARFITT: Objection to form. A. Yeah. But it also concludes, in the same letter, that there is, you know, the potential for talc to migrate. So, I mean, I'm just trying to be that's what I reviewed. Yes, it does say that there's no biological mechanism. Q. You reviewed or strike that. In addition to the FDA looking at and applying the Bradford Hill criteria, IARC does	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	evidence. A. So, again, you know, just clarifying that this was done in 2005, with evidence that has accumulated since then. And I wouldn't classify it I have served on IARC panels, and I'm very familiar with their process. They don't reject anything. They classify drugs in the particular categories that they're supposed to be. So it was actually classified as possibly carcinogenic. Q. Take a look at Exhibit 20. (IARC Classifications marked Exhibit 20.) BY MR. ZELLERS: Q. Deposition Exhibit 20 are the IARC classifications; is that right? I'm sorry. Did you answer the question? A. Yes. Sorry. Q. That's okay. A. Yes. Q. All right. It lists out, starting with
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Page 134	Page 136
1 Q. There are 120 agents that have been 1	A. Yes.
2 determined by IARC, the International Agency for 2	Q. So out of the 1,000 agents that IARC
3 Research on Cancer, as Group 1 agents, 3	has reviewed, it has placed only one agent in
4 carcinogenic to humans; is that right? 4	Group 4, probably not carcinogenic; is that
5 A. Yeah. That includes asbestos, many 5	right?
6 others.	A. Yeah. But 499 are not classifiable as
7 Q. That is the only category in which IARC 7	it relates, so.
8 finds sufficient evidence in humans; correct? 8	Q. IARC doesn't even have a Group 5, not
9 A. No. To clarify, they have it may be 9	carcinogenic, does it?
10 in my report, that they have a particular way of 10	A. Well, I mean, all the once it's
defining that category. And it may not be just	probably not carcinogenic, it's not carcinogenic.
12 sufficient evidence in humans. They may be 12	Q. The best that IARC can state is that an
13 something else. If I can look back at my report. 13	agent is probably not carcinogenic to humans,
14 Q. Well, if it's in your report, it's in	which is Group 4; is that right?
15 your report. And we can all read that. 15	A. Yes.
16 My question to you is: Group 1 is a 16	MS. PARFITT: Objection.
17 category where IARC has determined that there is 17	Q. All right. As with strike that.
18 sufficient evidence in humans to classify an 18	With genital talc, the IARC group 2B
19 agent as carcinogenic; is that right? 19	designation is based on limited evidence in
20 MS. PARFITT: Objection. Misstates 20	humans; is that right?
21 Dr. Singh's testimony.	MS. PARFITT: Objection.
22 A. I mean, do I get time to 22	A. Yes. There was some animal
23 Q. Doctor, I only have seven hours here. 23	consideration. There were some biological
24 So go to Exhibit 20. I'll make this quick. 24	mechanisms, but, again, in 2005, and as I state
25 Do you see Exhibit 20 in front of you? 25	in my report, which I have, and there have been
Page 135	Page 137
1 A. Yeah. 1	multiple studies since then. And that, you know,
2 Q. This is the IARC classifications; is 2	that they should be revisited.
3 that right?	Q. That means IARC cannot rule out chance,
4 A. Okay. Mm-hmm. 4	bias or confounding with reasonable confidence;
5 Q. Group 1 states, "Carcinogenic to 5	correct?
6 humans."	A. Based on the data they had at that
7 A. Yes. 7	time.
8 Q. Do you see that?	Q. What else is in 2B, possibly strike
9 A. Yeah. 9	that.
10 Q. All right. Group 2A, there are 82	What else is in class 2B, possibly
11 agents that are probably carcinogenic to humans; 11	carcinogenic? Are you familiar with Ginkgo
12 is that right?	biloba?
13 A. Yes.	MS. PARFITT: Objection to form.
Q. IARC is certainly capable of reaching a 14	A. I know the name.
15 decision that something is a known or probable 15	Q. Are you aware that that's classified as
16 carcinogen; is that right?	a 2B agent by IARC?
17 MS. PARFITT: Objection. 17	A. I don't know. I mean, you know, they
18 A. Yes. I mean, 15 years ago, yes, based 18	also classify as it relates to exposure. So I
19 on the evidence.	haven't reviewed Ginkgo biloba to be able to
20 Q. It has placed at least 200 agents in 20	answer the question.
21 Group 1 or Group 2A; is that right?	Q. Pickled vegetables, 2B; is that right?
22 A. Yes.	A. How do I know? Show me.
Q. There's only one agent in Group 4,	Q. Occupational
24 probably not carcinogenic to humans; is that 24	A. That's what you're saying.
25 right? 25	Q carpentry and joinery, 2B? Are you

35 (Pages 134 to 137)

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Page 138 Page 140 1 aware of that? 1 Q. Doctor, I'm asking you questions. 2 My question is: Epidemiologists consider a 2 A. Again, this is 2015. And, you know, 3 yes. I don't know I'm aware of that. I mean, 1.3 odds ratio in case-control studies to be a you can't put words in my mouth that pickle --4 weak or modest association; correct? 5 how do I know that? 5 MS. PARFITT: Objection. Misstates the 6 Q. There's no chance of my putting words 6 evidence and the science. 7 in your mouth. IARC can change its 7 A. Not the epidemiologists that I 8 classification for a substance; is that right? 8 contacted. You know, we look at various, you 9 A. It does. I mean, from what I 9 know -- as I state in my report, you know, you 10 10 can have modest associations and you can have a understand. Q. It has not changed its Group 2B 11 relative risk of one that are lower, and if you 11 go to a low-prevalence population, and then 12 12 classification since it determined that talc was remove competing risk factors, those can be 13 a 2B agent; is that right? 13 MS. PARFITT: Objection. Form. 14 14 attenuated. 15 A. It has not carried out an assessment 15 So the epidemiologists that I interact with, since 2005, that I'm aware of. 16 and we don't look at this as weak or modest or 16 17 Q. Has IARC changed its group 2B 17 high. We just look at it in the whole causal classification? 18 framework. 18 19 A. No --19 Q. Can you point to any peer-reviewed 20 20 literature on talc and ovarian cancer that states MS. PARFITT: Objection. A. -- and as far as I'm aware, no 21 21 that 1.3 odds ratio is a strong association? 22 assessment has been carried out. 22 A. Again, that's not -- I'm not looking at 23 Q. Bradford Hill, strength of association 23 talc at 1.3 is a strong association. I'm stating that, yeah, I can't point to the talc literature 24 is one of the criteria; is that right? 24 A. I don't consider them criteria. 2.5 that states that. 25 Page 139 Page 141 1 There's overviews. I think -- I'm just picking 1 Q. IARC does not refer to this as a strong 2 the terms. I mean, they're overviews of Bradford 2 association: correct? Hill. Doesn't list them as criteria, because 3 3 MS. PARFITT: Objection. Form. A. I don't know what -- the particular 4 criteria implies a list of things that you can 4 5 pick and choose from. 5 objective or qualifier they use. I mean --6 Q. You would call them what? 6 Q. FDA doesn't refer to this as a strong 7 A. Overviews. Actually, that's what he 7 association, do they? 8 8 MS. PARFITT: Objection to form. calls them. 9 9 A. Again, you have to sort of just show me Q. Overviews. Strength of association is where they are, and I'll agree with it. 10 a Bradford Hill overview; is that right? 10 Q. Have you seen any statement from IARC 11 11 12 Q. Epidemiologists consider a 1.3 odds 12 that there is a strong association between 13 ratio in case-control studies to be a weak or 13 genital talc use and ovarian cancer? 14 modest association; is that right? 14 A. I don't recall that particular phrase. MS. PARFITT: Objection. Misstates the Q. All right. The National Cancer 15 15 Institute doesn't refer to this as a strong 16 16 evidence. 17 A. No. I mean, again, strength of 17 association; correct? 18 association based on -- depends on the study 18 MS. PARFITT: Objection to form. 19 question at hand, the study design, and, you 19 A. I don't recall that particular know, the quality of the underlying data. So 20 20 objective. 21 strength of association, in and of itself, does 21 Q. Do your opinions on strength of not provide any -- any -- any sort of -- any association apply equally to all forms of ovarian 22 22 23 answer to the causal question. Again, I'll go 23 cancer? 24 back to my report, because I have to go back to 24 MS. PARFITT: Objection. Form. 25 my report. 25 A. Again, I'm -- you know, my opinions are

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Page 142 Page 144 not -- again, we can parse this out. I mean, I 1 1 me when you have that. was just looking at the causal question. Is talc 2 A. Yeah. 2 Q. "Proposal to research community." Do 3 causally related to the development of ovarian 3 4 cancer? 4 you see that? 5 And, you know, most of the evidence that I 5 A. Yes. 6 examined were -- was provided in terms of serous Q. Tell me if I read this statement by the 6 7 epithelial cancer, and --7 authors correctly. "The current body of experimental and Q. I thought you told me that your 8 8 9 methodology was to look at the Bradford Hill 9 epidemiological evidence is insufficient to 10 overview factors; is that right? 10 establish a causal association between perineal 11 A. Yeah. 11 use of talc and ovarian cancer risk. 12 Q. All right. And one of those factors is Experimental research is needed to better 12 13 strength of association; is that right? 13 characterize deposition, retention, and clearance 14 A. Yes. 14 of talc to evaluate the ovarian carcinogenicity 15 Q. And that's a factor that you looked at; 15 of talc." 16 Did I read that correctly? correct? 16 17 17 A. Yes. A. Yes. 18 Q. Do your opinions on strength of 18 Q. You're drawing conclusions from this association apply equally to all forms of ovarian 19 study that are broader than the study authors' 19 20 20 own conclusions; is that right? 21 MS. PARFITT: Objection. Form. 21 MS. PARFITT: Objection. 22 A. Well, I did not disaggregate my, you 22 A. I didn't draw. So you were asking me 23 know, opinion by histologic subtype. 23 that whether I drew a single conclusion from the Q. You cite to the Langseth paper; is that Langseth. I mean, there are -- I think I cite 24 24 25 right? all the meta-analyses first, and then -- so I'm 25 Page 145 Page 143 1 1 A. I do. not just drawing inferences from there. 2 2 Q. You state that the authors in Langseth And the authors, as far as I am aware, A, 2008 found an odds ratio ranging between 1.12 to 3 there have been several other studies published 3 1.4, depending upon the type of study design. Is since then. This is 2007. So we have 12 years 4 4 5 that right? This is on Page 22 of your report. 5 and several publications. And, B, the authors 6 A. Okay. 6 themselves have provided opinions that they are 7 7 Q. Langseth, in fact, rejects causation causally related. Dr. Siemiatycki, as far as I'm 8 and says more study is needed; correct? 8 aware. MS. PARFITT: Objection. Form. 9 9 Q. Did you cite this paper in your report? 10 A. I don't know why you have stated they 10 A. Yes. reject causation. Show me that statement in that Q. The authors in this paper state that 11 11 12 article. 12 the current body of experimental and 13 Q. Take a look, if you will, at Deposition 13 epidemiological evidence is insufficient to establish a causal association between perineal 14 Exhibit 21. 14 (Article entitled "Perineal use 15 use of talc and ovarian cancer risk; is that 15 16 of talc and risk of ovarian cancer" marked 16 17 17 Exhibit 21.) MS. PARFITT: Objection. Misstates the 18 MS. PARFITT: Thank you. 18 evidence in this case. The science and 19 MR. ZELLERS: Mm-hmm. 19 testimony. 20 BY MR. ZELLERS: 20 A. It says the current body of evidence. This is current as of two thousand and whenever. 21 Q. Deposition Exhibit 21 is the Langseth 21 2008 meta-analysis that you cite in your report; Q. This is the paper. 2008, Exhibit 21, 22 22 23 is that right? 23 that you relied on --A. Yeah. It's one of the meta-analyses. 24 24 A. Yeah. 25 Q. Turn to Page 359 of Exhibit 21. Tell 25 Q. -- and cite in your report; correct?

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	Page 146		Page 148
1	A. This is not the only	1	overall evidence, my testimony is that the cohort
2	MS. PARFITT: Objection. Form.	2	study estimates are in line with the case-control
3	A paper. I cited on 2017, 2018.	3	evidence and provide evidence of consistency.
4	Q. Go to the acknowledgments section.	4	Q. The cohort studies themselves, looking
5	Do you see the acknowledgments off to the	5	just at those studies, and I'm going to ask you
6	left?	6	about the others
7	A. Yes.	7	A. Sure, sure.
8	Q. The authors are IARC members; is that	8	Q do not show a consistent
9	right?	9	association between talc use and ovarian cancer;
10	A. Yes.	10	correct?
11		11	MS. PARFITT: Objection. Misstates the
12	Q. The authors of this paper, Langseth? A. Yes.	12	testimony.
13		13	A. So that's not the way I look at
	Q. Another overview factor of Bradford	14	evidence. I look at everything. That's what you
14 15	Hill is consistency; is that right? A. Yes.	15	want to look at. You can look at it.
		16	
16 17	Q. The literature does not show a	17	I just look at evidence, you know, whatever is out there. So I didn't look at cohort studies
	consistent association between talc use and	18	
18	ovarian cancer; right?	19	in and of themselves.
19	MS. PARFITT: Objection to form.	20	And that's why we do systematic reviews.
20	A. I disagree.	21	That's why we do meta-analyses, because you want
21	Q. The cohort studies do not show an	22	to look at everything at the same time.
22	association between talc use and ovarian cancer;		Q. You did not look at the cohort studies
23	correct?	23 24	individually; correct?
24	MS. PARFITT: Objection to form.	25	A. I did. And they're in my report.
25	A. I disagree. The cohort studies show	∠5	Q. If you looked at the cohort studies
	Page 147		Page 149
1	Page 147 significant you know, increased risk, which is	1	Page 149 individually, they do not show a consistent
1 2		1 2	
	significant you know, increased risk, which is		individually, they do not show a consistent
2	significant you know, increased risk, which is in the same direction as the case-control studies, which, as several of the authors, such as Penninkilampi and others and me, interpret as	2	individually, they do not show a consistent association between talc use and ovarian cancer;
2 3	significant you know, increased risk, which is in the same direction as the case-control studies, which, as several of the authors, such	2 3	individually, they do not show a consistent association between talc use and ovarian cancer; correct?
2 3 4	significant you know, increased risk, which is in the same direction as the case-control studies, which, as several of the authors, such as Penninkilampi and others and me, interpret as evidence of consistency. Q. The cohort studies are what?	2 3 4	individually, they do not show a consistent association between talc use and ovarian cancer; correct? MS. PARFITT: Objection. Misstates the
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Page 150 Page 152 1 ovarian cancer in one of them, and cumulative 1 MS. PARFITT: Wait. Are you in the 2 2 evidence from cohort studies shows an excess risk middle? 3 of ovarian cancer which is not statistically 3 A. Yeah. That's incorrect. It should be 4 significant. 4 the population-based case studies. That's my --5 Q. Hospital-based, case-control studies 5 you know, that's a misstatement on my part. collectively do not show an association between 6 6 Q. So you need to amend your report? A. Yeah. Yeah. 7 talc use and ovarian cancer; correct? 7 8 MS. PARFITT: Objection. Misstates the 8 Q. So if we go to Page 54 --9 evidence. 9 A. Yeah. 10 10 Q. -- Paragraph 8, you state that it's an A. That is incorrect, because error when you state, "As opposed to 11 hospital-based, case-control studies also show an 11 hospital-based controls, which may be less 12 association between talc use and ovarian cancer 12 13 which is not, you know -- and I would have to 13 susceptible to selection bias, the 14 look again. Please bring out the studies, 14 population-based, case-control studies have 15 because I want to look at some of the studies 15 consistently showed a higher estimate of 16 before I, you know, provide specific -- you're 16 increased risk of ovarian cancer associated with asking very specific questions about 17 17 talc use." hospital-based studies, so I have to look at the 18 18 A. Yeah. And I was applying the less 19 studies. 19 susceptible to the population-based statement. 20 Q. If you can't answer a question, tell me 20 Q. How do you need to correct this 21 you can't answer it. But my question is, 21 statement? 22 hospital-based, case-control studies collectively 22 A. I don't know how, you know. Yeah, it do not show an association between talc use and 23 23 would be as opposed to hospital-based controls, population-based, case-control studies may be 24 ovarian cancer; correct? 24 25 MS. PARFITT: Objection. Misstates the 25 less susceptible to selection bias. Page 153 Page 151 1 evidence. 1 Q. You believe that population-based 2 A. No. I disagree. And, again, I'd have 2 studies may be susceptible to less selection 3 to -- can we pull the Penninkilampi paper? 3 bias? 4 Q. Doctor, I'm going to ask you about that 4 A. May be less susceptible. 5 paper. 5 Q. Take a look at Exhibit 21. That's the 6 A. No. But then how can I answer 6 article we looked at a few minutes ago. 7 7 Do you see that? questions? 8 Q. I need you to answer my questions. 8 A. That's the Langseth? 9 If you can't answer a question, then tell me 9 Q. Yes. The Langseth article. 10 you can't answer the question. 10 Do you see that? 11 A. I'm willing to answer the question. 11 A. Yes. 12 Just bring me the evidence so that I can look at 12 Q. Take a look under the hospital-based 13 13 studies. 14 I'm sorry. I'm trying my best. 14 Do you see that on Page 359? Q. In your report, you state that 15 15 16 hospital-based, case-control studies may be less 16 Q. You are the one who cites this paper 17 susceptible to selection bias than and relies on it; is that right? 17 18 population-based, case-control studies; correct? 18 19 A. Where do I state that? 19 Q. If we look at pooled odds ratio for 20 Q. Look at your report on Page 54, 20 hospital-based studies --21 Paragraph 8. 21 A. Mm-hmm. 22 A. Actually, I state entirely the 22 Q. -- the odds ratio is 1.2 and the 23 opposite. I state that the population-based 23 confidence interval is a .92 to 1.36; is that 24 studies may have --24 right? 25 Q. So --25 A. Yes.

Page 154 Page 156 1 Q. That means that it may or may not be -behavioral change bias, which attenuates towards 2 2 show an association between talc use and ovarian the null. It induces an element of 3 cancer. The pooled result; is that right? 3 misclassification of exposure, which goes towards 4 MS. PARFITT: Objection to form. 4 null. It limits the duration of assessment, 5 O. Given that confidence interval. 5 which, you know, limits assessment. So it 6 MS. PARFITT: Objection to form. 6 doesn't have power to suggest. 7 A. Yeah. Again, this is -- you know, at 7 So, yes, recall bias is a feature that is 8 that time. I don't know what studies have been 8 better assessed in the cohort studies, but recall 9 added. We can look in the new paper, which I'm 9 bias, for exposures that are daily use, such as 10 not sure why it's not been brought up. 10 talc, are less likely, you know, to be in play. Recall bias -- let me finish my explanation. 11 But, yes, it does show an excess risk, not 11 Recall bias would less likely be in play 12 statistically significant, consistent with the 12 13 population studies. 13 because we don't see evidence with nonperineal 14 Q. All right. Hospital-based control 14 talc exposure. Recall bias are less likely to be 15 studies, you're more likely to be comparing 15 in play because we only see it with epithelial 16 hospitalized patients to hospitalized patients; 16 ovarian cancer. 17 is that right? 17 So, yes, cohort studies less, but there are 18 A. Yes. That's why they're hospital 18 other biases. 19 19 Q. Couldn't recall bias explain the based. 20 20 difference between cohort studies and Q. Population-based studies, you're more 21 likely to be comparing ill people to healthy 21 retrospective case-control studies? 22 people; is that right? 22 MS. PARFITT: Objection. Form. A. I don't think so. There's multiple 23 A. Yeah. Your source of control. I 23 other biases and multiple other strengths and 24 mean -- well, it depends. How do you know if 24 limitations that would have to be considered. 25 it's ill people? If you are sourcing from the 25 Page 157 Page 155 1 1 Q. You cite to Berge, a 2017 paper, in population in both, it's a population-based 2 2 your report; is that right? Is that correct? study. A. Yes. 3 Q. Population-based, case-control studies, 3 the ones that you look at only show a weak 4 4 MR. ZELLERS: Take a look at 5 association between talc use and ovarian cancer; 5 Exhibit 22. 6 is that right? 6 (Article entitled "Genital use 7 7 MS. PARFITT: Objection. Misstates the of talc and risk of ovarian cancer: A 8 8 meta-analysis" marked Exhibit 22.) evidence. 9 9 MR. ZELLERS: Ms. Court Reporter, where A. I think we went about that weak. I 10 10 do you want me to put it, maybe here, on top? don't believe that they are weak. We went 11 COURT REPORTER: Sure. 11 through that. 12 Q. That's your --12 MR. TISI: Thank you. 13 A. Yeah. My opinion is that they're not 13 BY MR. ZELLERS: weak evidence. 14 14 Q. Deposition Exhibit 22 is a paper that 15 you cite by Berge, is the first named author, 15 Q. Isn't the absence of an association in 2017. It's a recent meta-analysis; is that 16 the cohort studies especially significant in that 16 17 the study design reduces the likelihood of recall 17 right? 18 bias? 18 A. Yes. 19 MS. PARFITT: Objection to form. 19 Q. Go to Page 6 of the Berge paper, 20 20 A. Yes. I mean, it is important to look at recall bias in the cohort studies. But the 21 The authors conclude that, "Information bias 21 from retrospective self-report of talc use is a 22 study design introduces several elements of other 22 23 bias for an outcome such as ovarian cancer. 23 possible explanation for the association detected 24 You know, I'm answering your question, 24 in case-control studies." Is that right? 25 because you asked about bias. It introduces 25 A. Yes.

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Sonal Singh, M.D., M.P.H.

Page 158 Page 160 1 Q. What was your methodology for 1 that the case-control stories are more powered. 2 2 discounting the effect of recall bias in the Q. Do you agree that some case-control population-based, case-control studies? 3 studies have shown statistically significant 4 A. I mean, it's not like there's a -- once 4 findings and others have not? A. Yes. 5 recall is operational, there are no methods that 5 6 you can and do discount. But just the quality 6 Q. What is your methodology for weighing and, you know, the quantity of evidence over 7 the lack of consistency in statistical 8 studies and the fact that even the cohort 8 significance across studies? 9 studies, despite these limitations, show an 9 MS. PARFITT: Objection. Form. 10 increased risk suggests that recall bias, while 10 A. I can answer that. Yeah. 11 it is potential, cannot explain -- be the only 11 So the methodology for correcting the lack of significance, that's why you do a 12 explanation for a causal link between talc and 12 13 ovarian cancer. You cannot adjust for recall 13 meta-analysis. That's an inverse variance 14 bias after the completion of the study. 14 weighted meta-analysis. You -- so all of these 15 Q. What is the rate of error in that 15 studies have accounted for the fact that their 16 methodology? 16 confidence intervals are crossing 1. And that's 17 A. I think that none of them have 17 how they have accounted for lack of a statistical 18 significance. 18 calculated it. And Dr. Cramer has done in his 19 last study. And it appears that you'd have to 19 So you can see that all of these estimates 20 need a significant degree of recall bias. And I 20 are weighted by sample size. So --21 am going to reference my report. 21 Q. Do you agree that if a study does not 22 O. Okay. Didn't the cohort studies 22 show a statistically significant association, it 23 involve a much greater --23 could mean that no risk exists? Correct? 24 A. I'm not done. 24 MS. PARFITT: Objection. Form. 25 MS. PARFITT: Excuse me. 25 A. In the context of that study. But, Page 161 Page 159 1 1 again, I am looking at the cumulative evidence. A. I'm done. 2 MS. PARFITT: One moment. He wanted to 2 Q. It could mean -- strike that. 3 reference something in his report. It could just be occurring by chance; is 3 A. Yeah. The risk of exposure would have 4 4 that right? 5 to be very high to nullify the increased risk. 5 MS. PARFITT: Objection. Form. 6 Q. Didn't the cohort studies involve a 6 A. I'm looking at the whole body of 7 much greater number of women than the 7 evidence. 8 8 case-control studies? In the context of a single study, yes. MS. PARFITT: Objection. Misstates the 9 9 Q. If a study is underpowered it could be 10 evidence. 10 because the difference in risk is too small to 11 A. Yeah. But their combined number of 11 detect such as a risk ratio smaller than 1.15; 12 ovarian cancer cases was 890. So power is only 12 isn't that right? 13 -- depends on the number of cases. 13 A. Yes. It's possible. 14 Q. What was your methodology for weighing 14 Q. All right. You have a criticism in 15 the power of the cohort studies versus the your report of the Nurses' Health Study; is that 15 16 case-control studies? 16 right? 17 A. I mean, retrospective calculations of 17 MS. PARFITT: Objection to form. 18 power are, you know, not really recommended once 18 A. I don't have -- again, I don't have 19 you already have the results. I mean, we already 19 criticisms. I have pointed out the strengths and 20 see that the overall cumulative evidence 20 limitations. 21 from many meta-analyses suggests an increased --21 Q. Well, let's look at some of those. you know, provides an increased risk. 22 22 On Pages 40 and 41 of your report, you 2.3 And we know that there's thousands of cases discuss the Gates 2008 study; is that right? 23 in the case control. There's, you know, I don't 24 24 A. 40. Yes. 25 know how many cases in the cohort, so we know 25 Q. The Gates 2008 study showed a

	Page 162		Page 164
1	statistically significant increased risk of total	1	Study questionnaire; correct?
2	epithelial ovarian cancer; is that right?	2	A. Yes.
3	A. Let me just look at it. There's so	3	Q. And you cite that on Page 48 of your
4	many of these. Yes.	4	report, second paragraph; is that right?
5	Q. The Gates 2008 study used data	5	A. Yes.
6	collected in the Nurses' Health Study; is that	6	Q. You state, "Further, as discussed
7	right?	7	above, determining never use, based only on a
8	A. Yes. There was another part to it as	8	one-time question, near the start of the study,
9	well.	9	14 years prior to terminating the study in 1996,
10	Q. In the Nurses' Health Study, the	10	introduces undirectional behavioral change bias,
11	participants were asked about their talc exposure	11	likely misclassifying some ever users who used
12	in one questionnaire in 1982; is that right?	12	talc during the study as never users and biased
13	A. Yes.	13	the findings toward the null."
14	Q. When they were asked about their talc	14	Is that what you state in your report?
15	use, the participants were between 36 and 61	15	A. Let me just read it. Yes.
16	years of age; is that right?	16	Q. So when you discuss the Gertig 2000
17	A. Yes.	17	study, you say that, because the participants in
18	Q. As you state in your report, you agree	18	the Nurses' Health Study were only about or only
19	that, although talc exposure and I'm looking	19	asked about talc use once, near the beginning of
20	at Page 41	20	the study, women who started using talc after
21	A. Yes.	21	they completed that questionnaire could have been
22	Q. The first paragraph. You agree that,	22	misclassified as never users; is that right?
23	"Although talc exposure was only measured in the	23	A. Yeah.
24	1982 Nurses' Health Study questionnaire, when	24	Q. But when you talk about the study that
25	participants were between 36 to 61 years of age,	25	you believe supports your opinion
	Page 163		5 165
	5		Page 165
1	the number of users who began talc use after this	1	A. Yeah.
1 2	the number of users who began talc use after this is likely small, as shown by the fact that more	1 2	A. Yeah. Q Gates 2008, you recognize that the
2	the number of users who began talc use after this is likely small, as shown by the fact that more than 95 percent of controls with regular talc in	2	A. Yeah. Q Gates 2008, you recognize that the vast majority of women who use talc initiate use
2 3 4	the number of users who began talc use after this is likely small, as shown by the fact that more than 95 percent of controls with regular talc in the NECC reported talc use before age 35."	2 3 4	A. Yeah. Q Gates 2008, you recognize that the vast majority of women who use talc initiate use before age 36; is that right?
2 3 4 5	the number of users who began talc use after this is likely small, as shown by the fact that more than 95 percent of controls with regular talc in the NECC reported talc use before age 35." A. Yes.	2 3 4 5	A. Yeah. Q Gates 2008, you recognize that the vast majority of women who use talc initiate use before age 36; is that right? A. Yeah. But it does not both points
2 3 4 5 6	the number of users who began talc use after this is likely small, as shown by the fact that more than 95 percent of controls with regular talc in the NECC reported talc use before age 35." A. Yes. Q. Is that correct?	2 3 4 5 6	A. Yeah. Q Gates 2008, you recognize that the vast majority of women who use talc initiate use before age 36; is that right? A. Yeah. But it does not both points are valid. I mean, I'm just stating the
2 3 4 5 6 7	the number of users who began talc use after this is likely small, as shown by the fact that more than 95 percent of controls with regular talc in the NECC reported talc use before age 35." A. Yes. Q. Is that correct? A. Yes.	2 3 4 5 6 7	A. Yeah. Q Gates 2008, you recognize that the vast majority of women who use talc initiate use before age 36; is that right? A. Yeah. But it does not both points are valid. I mean, I'm just stating the limitations of the Gates study and the Gates
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2 3 4 5 6 7 8 9	the number of users who began talc use after this is likely small, as shown by the fact that more than 95 percent of controls with regular talc in the NECC reported talc use before age 35." A. Yes. Q. Is that correct? A. Yes. Q. Later in your report, on Pages 47 and 48, you discuss the Gertig 2000 study; is that	2 3 4 5 6 7 8 9	A. Yeah. Q Gates 2008, you recognize that the vast majority of women who use talc initiate use before age 36; is that right? A. Yeah. But it does not both points are valid. I mean, I'm just stating the limitations of the Gates study and the Gates analysis. So. I don't see an incongruity that you're
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the number of users who began talc use after this is likely small, as shown by the fact that more than 95 percent of controls with regular talc in the NECC reported talc use before age 35." A. Yes. Q. Is that correct? A. Yes. Q. Later in your report, on Pages 47 and 48, you discuss the Gertig 2000 study; is that right? A. Yes. Q. That study also uses the data from the Nurses' Health Study; correct? A. Yes. It's all part of the same cohort. Q. That study, Gertig 2000, did not find a statistically significant relationship between daily talc use and all types of ovarian cancer; is that right? A. Yeah. Again, I mean, they are different — they're the same cohort with different follow-up time, different design. But it did not. And it found an increased risk for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yeah. Q Gates 2008, you recognize that the vast majority of women who use talc initiate use before age 36; is that right? A. Yeah. But it does not both points are valid. I mean, I'm just stating the limitations of the Gates study and the Gates analysis. So. I don't see an incongruity that you're trying to point out. I'm just saying the proportion of women who were never users, the number of users who began is likely small. But it still does not eliminate the possibility of unidirectional behavioral change bias. Q. When you're looking at a cohort study, Gertig 2000 that does not support your opinion, you're talking about limitations; correct? MS. PARFITT: Objection. Misstates his testimony. A. I'm not talking about a study that does not support mine. I'm looking at the strengths and limitations of a study.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the number of users who began talc use after this is likely small, as shown by the fact that more than 95 percent of controls with regular talc in the NECC reported talc use before age 35." A. Yes. Q. Is that correct? A. Yes. Q. Later in your report, on Pages 47 and 48, you discuss the Gertig 2000 study; is that right? A. Yes. Q. That study also uses the data from the Nurses' Health Study; correct? A. Yes. It's all part of the same cohort. Q. That study, Gertig 2000, did not find a statistically significant relationship between daily talc use and all types of ovarian cancer; is that right? A. Yeah. Again, I mean, they are different — they're the same cohort with different follow-up time, different design. But it did not. And it found an increased risk for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yeah. Q Gates 2008, you recognize that the vast majority of women who use talc initiate use before age 36; is that right? A. Yeah. But it does not both points are valid. I mean, I'm just stating the limitations of the Gates study and the Gates analysis. So. I don't see an incongruity that you're trying to point out. I'm just saying the proportion of women who were never users, the number of users who began is likely small. But it still does not eliminate the possibility of unidirectional behavioral change bias. Q. When you're looking at a cohort study, Gertig 2000 that does not support your opinion, you're talking about limitations; correct? MS. PARFITT: Objection. Misstates his testimony. A. I'm not talking about a study that does not support mine. I'm looking at the strengths and limitations of a study.

Page 166 Page 168 1 MS. PARFITT: Objection. Misstates his participants in the Houghton 2014 study was 63.3 years at baseline, with 12.4 years of follow-up 2 testimony. 3 3 A. I am not. on average; is that right? 4 First of all, they are two different 4 A. Yes. 5 5 analyses of a cohort. So they're not two Q. And then you say that, because participants were not asked again about talcum 6 different things about. 6 7 7 And I'm pointing out, you know, the reasons powder use during follow-up, people who initiated 8 that that -- so I'm, you know, pointing out in 8 talc use after the study began were being 9 9 Gates that, yes, talc exposure is a single-time misclassified as never users. Is that right? 10 exposure. And it is -- you know, introduces an 10 A. Yes. 11 element of bias. 11 Q. So, again, when the study supports your 12 But I'm also pointing out in Gates why that 12 opinion, you recognize that the vast majority of 13 bias is likely to be, you know, small coming from 13 perineal talc users begin that use well before 14 the other consortium. 14 age 63. 15 Q. But you don't say that when you discuss 15 MS. PARFITT: Objection. Misstates 16 Gertig 2000, do you? 16 testimony. 17 A. Yeah. Because it wasn't done in 17 A. I don't recognize that. How do I recognize that? I'm just citing that, in Gates, 18 conjunction with the NECC consortium. 18 they provided that opinion. Yeah. 19 Q. All right. Look at Page 49 of your 19 20 report. You discuss the Houghton 2014 study; is 20 In the Gates study, they quoted data from 21 that right? 21 the NECC, that that's one study that provides. I 22 A. Yes. 22 don't know what's happening in the -- in this 23 Q. All right. Houghton did not find a 23 Houghton study, that vast majority. That's 24 something that you are providing. And you 24 statistically significant increase in the risk of 25 ovarian cancer with perineal talc use; is that 25 provide data that the vast majority of users Page 167 Page 169 1 1 right? began --2 2 Q. It's something you cited in your A. Yes. 3 report; correct? 3 Q. Houghton did not find a statistically 4 A. Yeah. But it doesn't mean that that 4 significant increase in the risk of ovarian 5 cancer with use of talcum powder on sanitary 5 applies to, you know, this Houghton study as 6 napkins or diaphragms; is that right? 6 well. 7 7 A. Yeah. They found an increased risk Q. And that's my point. You take a piece 8 which was not statistically significant. 8 of information in terms of when women begin their 9 Q. And Houghton 2014 did not find a 9 talc use. You apply it differently in your 10 10 analysis of studies that favor plaintiffs' statistically significant increase in risk of 11 position than studies that do not favor 11 ovarian cancer with increasing durations of use 12 or when stratified by age or tubal ligation 12 plaintiffs' position? 13 status; correct? 13 A. I'm sorry. I have to object. MS. PARFITT: Objection. 14 MS. PARFITT: Objection. Form. 14 A. I don't know that specific. I mean, 15 A. I have to object. This is a 15 mischaracterization of my testimony. I mean, I 16 you'd have to show me. Again, I don't remember 16 17 17 have to object to this. Because -- no, I have these studies offhand. 18 Q. Like the Nurses' Health Study, the 18 19 Houghton 2014 authors ask participants about 19 MS. PARFITT: Let him finish. Let 20 20 their talcum powder use at the participants' 21 entry into the study; is that right? 21 A. Because you are mischaracterizing my A. Yes. And they don't update during a 22 22 testimony. 23 follow-up, introducing, you know, bias. 23 Yes, I point out the limitations in one 24 Q. On Page 50 of your report, second 24 section that, you know, a majority of women. And 25 paragraph, you note that the average age of the 25 I also point out the unidirectional change bias,

	Page 170		Page 172
1	and both are entirely congruent with each other.	1	MR. ZELLERS: So I'll ask just a few
2	But yes	2	questions about this study
3	Q. Tell	3	MS. PARFITT: And if it's not here
4	A. Yes.	4	MR. ZELLERS: then we'll take a
5	Q. Are you finished?	5	break, because we've been going for a while.
6	A. Yes.	6	(Article entitled "Perineal Talc
7	Q. All right. On what are you relying to	7	Use and Ovarian Cancer, A Systematic Review
8	opine that enough women begin talcum powder use	8	and Meta-Analysis" marked Exhibit 23.)
9	in their 50s and 60s such that the results of	9	BY MR. ZELLERS:
10	Houghton or Gates 2000 are biased toward the	10	Q. Doctor
11	null?	11	A. I think we need a break in five
12	A. Well, I mean, we know exactly. I	12	minutes. I need a break. I don't know about
13	mean, we don't know that. I mean, we can't	13	you.
14	even a small amount, and that's important to	14	Q. We don't want to wear you out.
15	know, that even a small amount of users was	15	A. It's only half. Not even half the way.
16	class because we didn't ask those questions.	16	Q. I'm handing you Exhibit 23. This is
17	So even a small amount of users who had moved to	17	the Penninkilampi meta-analysis that you have
18	the other category would have nullified you	18	referred to in your report and also in your
19	know, would have biased it towards the null.	19	testimony; is that right?
20	Q. Based on all your review, the data that	20	A. Yes.
21	you came across and that you cite in your report,	21	Q. You rely on this meta-analysis,
22	are that the vast majority of women begin talc	22	Deposition Exhibit 23, in forming your opinions;
23	use in their 20s or earlier; correct?	23	is that right?
24	A. No. I cite that in the NECC. That's	24	A. As one of the studies. Yes.
25	the data I came across. And that's why it is	25	Q. It's a 2018 meta-analysis; is that
	Page 171		Page 173
1	cited. So to mischaracterize it as not being	1	right?
2	cited is incorrect.	2	A. Yes.
3	Q. What is the latency period for ovarian	3	Q. Are you aware that this meta-analysis
4	cancer?	4	by Penninkilampi does not include the Gates 2010
5	A. I don't know a specific number. It's,	5	update of the Nurses' Health Study?
6	you know, several years.	6 7	A. When you say the Gates 2002 the
7 8	Q. Several years.	8	study that we Q. What we looked at before was Gates
9	That's your testimony based upon all of the data and material you've reviewed?	9	2008. And we also looked at Gertig 2000
10	A. Yes. I mean	10	A. All these different studies.
11	MS. PARFITT: Objection.	11	Q. That's all right.
12	Q. You've you've been referring to	12	You're aware that there are several
13	Penninkilampi; is that right?	13	different cohort studies relating to the Nurses'
14	A. I don't know the name. Yes.	14	Health Study; is that right?
15	Q. But let me give it to you and we can	15	A. Yes.
16	both see if we can pronounce it together.	16	Q. What we talked about earlier was the
17	MS. PARFITT: Before we start, it's	17	Gertig 2000 study.
18	about 12:20. We do have lunch coming. May I	18	A. Okay.
19	just take two minutes to see if it's here?	19	Q. Correct?
20	MR. ZELLERS: Sure. Or you can let me	20	A. Yes. And before that, we talked
21	ask a couple of questions about this study and we	21	about
22	can take a break, but whatever your preference	22	Q. The Gates 2008.
23	is.	23	A. Okay.
24	MS. PARFITT: What's your preference?	24	Q. Are you aware that Gates, in 2010,
25	THE WITNESS: Let's do it.	25	updated the Nurses' Health Study, which we have

Page 174 Page 176 1 referred to as Gertig 2000? 1 So I think it's quite reliable and, you A. Yeah. I have. It's cited in my report 2 2 know, they were justified. They said we're going 3 3 as well, 92. to look at case control with more than 50 cases. 4 Q. Are you aware that Penninkilampi does 4 So I don't consider it unreliable for that 5 5 not include the Gates 2010 update of the Nurses' reason. 6 6 Health Study? MR. ZELLERS: Let's take a break. 7 7 MS. PARFITT: Refer to your --THE VIDEOGRAPHER: Here ends Media 8 8 A. Can I take a look? No. 2. Off the record, 12:24 p.m. 9 9 MS. PARFITT: Of course, you can. (Lunch recess was taken.) 10 10 THE VIDEOGRAPHER: Here begins media Q. Sure. 11 A. Yeah. It cites Gertig. 11 No. 3 in today's deposition of Sonal Singh, MD, 12 Q. But it does not cite Gates 2010; is 12 M.P.H. Back on the record, 1:02 p.m. 13 that right? 13 BY MR. ZELLERS: 14 A. I don't see it. 14 Q. Dr. Singh, another Bradford Hill 15 Q. Do you weigh this study, the 15 overview factor that you considered is 16 meta-analysis by Penninkilampi, less because it 16 dose-response; is that right? 17 does not include the Gates 2010 study? 17 A. Yes. 18 18 A. I mean, all of these meta-analyses, Q. Which studies show a dose-response? 19 most of them have found, you know, similar odds 19 A. Let me just refer to my report. 20 ratio. You know, some of them have made 20 So in -- you know, in assessing 21 different decisions. 21 dose-response, it's very challenging with an 22 They have made -- for example, they made 22 exposure such as perineal talc, particularly 23 decisions about more than 50 cases. Other -- if 23 because, you know, you need to know the amount, 24 24 you look at the Taher meta-analysis, they you need to know the duration, you need to know 25 decided, based on -- that a New Castle Tawas 25 the intensity of exposure. So there are Page 175 Page 177 1 1 Skill Rating will include studies. challenges. 2 2 So you have to review that. Just because The second is the challenge of modeling 3 they excluded Gates 2010, I wouldn't weigh it 3 dose-response. When we say dose-response -- or 4 4 differently. That's my answer. exposure outcome, is it linear monotonic 5 5 Q. Gates 2010 tends to negate an relationships? 6 association between perineal talc use and ovarian 6 And, you know, several studies, some measure 7 7 duration, some measure intensity, some measure cancer; correct? 8 8 duration and frequency. So as I cite in my MS. PARFITT: Objection. Misstates the 9 9 dose-response section, which I'm trying to evidence. 10 find -- I'm sorry -- yeah, Page 56 of my report. 10 A. So negates the evidence? I mean, in fact, if you look at influence analyses conducted Q. Which studies show a dose-response? 11 11 12 by Taher, it sort of doesn't matter which study 12 A. I mean, this is, you know, 13 you take out and which study you take in. All of 13 references -- with increased frequency, 51 to 55. Duration, 52 to 54. Frequency and duration, 14 the estimates are statistically significant. 14 Q. If you're going to do a reliable 15 15 58 -- 48 to 54. Q. Doctor, which studies did you review 16 meta-analysis, you should include the pertinent 16 17 that show a dose-response? studies; correct? 17 A. These are the studies that I cited. 18 MS. PARFITT: Objection. Misstates his 18 19 19 Q. What page are you looking at? testimony. A. Page 56. 20 A. Just give me a second. 20 21 Yeah. I mean, you have to include the 21 Q. Are there studies that do not show a permanent study -- but as we know, as we know, 22 22 dose-response? 23 people have made different decisions, like Taher 23 A. Yes. 24 made separate decisions, Berge has made 24 Q. Do you cite those studies that do not 25 separate -- the previous analysis made. 25 show a dose-response in your report?

	Page 178		Page 180
1	A. Yes, I do.	1	Q. On 337, there's a table that shows the
2	Q. On what page?	2	risk of ovarian cancer for women who used talc
3	A. Just give me a second. I know I have	3	daily for one year, one to five years, five to 20
4	cited them, and I'm just trying to find where.	4	years, and more than 20 years. Is that right?
5	Yeah. None of the cohort studies were able	5	A. Yes.
6	to conduct meaningful dose-response because they	6	Q. There was only statistical significance
7	did not collect durational.	7	for the time periods of one to five years of use
8	Q. Are those the only studies, the cohort	8	and more than 20 years of use; correct?
9	studies that did not find a meaningful	9	A. Yes.
10	dose-response?	10	Q. If there is a dose-response, shouldn't
11	A. No. There were several	11	there continue to be statistical significance
12	MS. PARFITT: Objection to form.	12	with increased exposure?
13	A. There were other case-control studies.	13	MS. PARFITT: Objection. Form.
14	No. If you take out 41, 55 I mean, these	14	A. Yeah. So that is I'm just
15	references cite above that are, you know,	15	concluding what they concluded. The trend for
16	included in the sections, and I talk about their	16	frequency of use was significant, but the trend
17	dose-response in the respective section.	17	for use years use was flat. And if you look
18	Q. What is your justification for	18	at Page 337, the last line of that paragraph,
19	disregarding the studies that did not show a	19	"Even with this imprecision, the trend remained,
20	dose-response?	20	although the increase was less monotonic."
21	MS. PARFITT: Objection. Form.	21	Q. When we look at the data, there is only
22	A. So I did not disregard these studies.	22	a dose-response strike that.
23	They are included in the report. So, obviously,	23	The data only shows statistical significance
24	the cohort studies already are, and we can go	24	for one to five years of use. It does not show
25	through the case-control studies, which did not	25	statistical significance for one year or five to
	Page 179		Page 181
1	Page 179 show dose-response and are included.	1	Page 181 20 years; correct?
1 2		1 2	
	show dose-response and are included.		20 years; correct?
2	show dose-response and are included. Q. One of the studies you reviewed and	2	20 years; correct? MS. PARFITT: Objection. Misstates the
2	show dose-response and are included. Q. One of the studies you reviewed and considered and relied upon was the Cramer 2016	2 3	20 years; correct? MS. PARFITT: Objection. Misstates the evidence.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	show dose-response and are included. Q. One of the studies you reviewed and considered and relied upon was the Cramer 2016 study; is that right? A. Yeah. (Article entitled "The Association Between Talc Use and Ovarian Cancer, A Retrospective Case-Control Study in Two US States" marked Exhibit 24.) BY MR. ZELLERS: Q. Exhibit 24 is the Cramer 2016 study; correct? A. Yes. Q. This is a retrospective case-control study published in 2016; is that right? A. Yes. Q. You claim in your report that this study shows a trend for increasing risk by talc years on Page 46, the last paragraph; is that right? A. Yes. Q. Let's take a look at whatever the study	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. PARFITT: Objection. Misstates the evidence. A. Yeah. So let's go to Q. Is that correct? MS. PARFITT: Objection. A. Yes. But let's go to the section of my testimony in which report which discusses how dose-response analysis should be interpreted, because they lose statistical power. So subgroup tests lose statistical significance, and I'll point out Q. You MS. PARFITT: Excuse me. I think he's still A. Yeah. I'm trying to explain something. Yeah. We are talking on the subject of dose-response. And one must be careful in interpreting data from the subgroup analysis such as analysis of dose categories or, you know, as subgroups. The results are important. If the test is not significant, there's lack of

Page 182 Page 184 1 Q. Doctor, if there is a dose-response in that testing to determine how much talcum powder 2 2 a study such as the Cramer 2016 paper, looking at reaches a woman's ovary after each application. 3 3 the data, shouldn't there continue to be Q. Do you have any idea how much asbestos 4 statistical significance with increased exposure? 4 reaches a woman's ovaries each time she uses 5 5 MS. PARFITT: Objection. talc, assuming that talc powder is contaminated 6 6 A. No, no, you don't -- it doesn't have to with asbestos? 7 7 be statistical significance with, you know, MS. PARFITT: Objection. Form. 8 8 A. I have not conducted that assessment. increased exposure. I mean, you look at the test 9 9 score interaction. Q. How much heavy metal exposure reaches a 10 10 woman's ovaries, assuming that there are heavy So I don't think that, with each category of 11 exposure, you're already -- you have a power for 11 metals in talcum powder? 12 a study. Now with each, you're decreasing the 12 MS. PARFITT: Objection. Form. 13 number of users, so you're not going to get 13 A. I have not conducted that assessment. 14 14 Q. Do you know that heavy metals, statistical significance. 15 Q. Then why do you get statistical 15 chromium, cobalt and nickel, are in vitamins? 16 significance at greater than 20 years of daily 16 A. Yeah. They are in, you know -- they 17 17 are ubiquitous in various other areas as well. use? 18 18 Q. They're in food; right? A. Yeah. Because there's differential, 19 you know -- at that point, you know, there's 19 A. I don't know which one is in which. 20 more -- there's, you know, more case subjects 20 Yeah. I can't be specific. 21 have ovarian cancer. 21 Q. In drinking water? 22 Q. Why do you not have statistical 22 A. I don't know. I don't want to say yes 23 significance at five to 20 years? 23 to whichever. 24 24 A. Because it's underpowered at that time. O. It's in bottled water? 2.5 Q. Why do you not have statistical 25 A. I don't know that. Page 183 Page 185 1 Q. Are heavy metals, chromium, cobalt and 1 significance at one year? 2 A. It's underpowered. 2 nickel, considered essential nutrients in the 3 3 Q. But it is appropriately powered at one body? 4 to five years? 4 MS. PARFITT: Objection. 5 A. Yes. Based on the number of cases. 5 A. Yeah. I mean, that's, you know, 6 Q. Isn't this an instance where you're 6 it's -- pertaining to this case, the question is 7 7 cherry-picking the data that is favorable to not that, whether they are in drinking water. 8 8 plaintiffs' position and ignoring all of the data I asked myself this question, causal 9 9 which would tend to refute plaintiffs' position? question, what constitutes talcum powder 10 10 MS. PARFITT: Objection. Form. products. And to that effect, if there are 11 A. I don't know what the plaintiffs' 11 substances such as, you know, chromium, cobalt, 12 position -- but what I'm trying to say is this 12 and other heavy metals that have been, you know, classified as Grade I or Grade II carcinogens 13 is -- my interpretation of dose-response is based 13 14 on, you know, not based on statistical 14 that provide further evidence of a causal link, 15 15 significance. So that's all. whether they are present in air, ambient air, 16 Q. Which studies show a dose-response for 16 that's not the assessment I've done, and I'm not asbestos exposure and ovarian cancer? 17 making a causal claim that chromium, per se, is 17 18 A. I have not evaluated the causal link 18 causing that ovarian cancer in that causal 19 between asbestos and ovarian cancer. Other 19 framework. 20 agencies have, and they have opined that it 20 Q. You have no evidence whatsoever that the blood or tissue levels of any trace heavy 21 21 causes ovarian cancer. But I have not. 22 Q. Do you have any idea how much talcum 22 metals are higher in genital talc users compared 23 to nonusers; correct? powder reaches a woman's ovaries each time she 23 24 uses it? 24 MS. PARFITT: Objection. Form.

47 (Pages 182 to 185)

A. Blood or genital talc. I'm sorry. Can

25

A. I have not conducted that -- conducted

25

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Page 186 Page 188 infer from whatever the biological evidence that 1 you repeat? 2 2 I've reviewed, that there's, you know, evidence Q. Sure. I'll ask it again. 3 You have no evidence that the blood or 3 that supports biologic probability. There are 4 tissue levels of any trace heavy metals are 4 some studies that, you know, don't support that 5 higher in genital talc users compared to 5 claim. 6 nonusers; correct? 6 Q. My question simply was if you defer to 7 MS. PARFITT: Objection. Form. 7 other experts on the topic of biologic 8 8 A. Yeah. But I do know that there is plausibility. 9 perineal talc application, and at least from the 9 MS. PARFITT: Objection. 10 documents I have reviewed, that, you know, 10 O. You do; correct? 11 asbestos is present in talc, at least from the 11 MS. PARFITT: Objection. That's not documents I've reviewed, from the studies that 12 12 his testimony. 13 I've reviewed, and from a -- as you say, the 13 A. I won't just defer to them. I'm just 14 14 providing my own opinion. Yeah. I mean, they excerpts of the deposition. can provide -- you know, it depends. If it's a 15 And, you know, whether these are in blood 15 16 levels or, as you said, in the uterine tissue, plaintiff expert, a defense expert. I mean, how 16 17 no. I don't know that. 17 do I know? I can't defer to somebody without Q. Another Bradford Hill overview factor 18 reading their opinion; right? 18 19 is biological plausibility; right? 19 Q. Is all ovarian cancer caused by the same mechanism? 20 A. Well, it's actually plausibility. 20 21 Q. Plausibility means that a biological 21 A. No. And neither is any kind of cancer. 22 mechanism exists; correct? 22 O. Different subtypes of cancer have 23 23 different biological mechanisms; correct? A. Well, that's what we mean. But if you 24 actually go back and read Bradford Hill, he was A. Yes. But we are dealing with biologic 24 talking even about social factors. Yes, but, you 25 25 plausibility. Page 187 Page 189 1 know, we've gone forward and interpreted that as 1 Again, I don't need to know the precise 2 2 biologic plausibility. biological mechanisms to arrive at a causal 3 Q. The biological mechanisms of cancer are 3 opinion. 4 not your area of expertise; is that right? 4 Q. If talc is associated with all subtypes 5 MS. PARFITT: Objection. 5 of epithelial ovarian cancer, or with different 6 A. Yes. But, again, the question for me 6 subtypes in different studies, doesn't that 7 7 was not, you know, to elucidate every precise suggest that the association is by chance? 8 8 step either in the occurrence of ovarian cancer MS. PARFITT: Objection. Misstates the 9 or the talc installation into the development. 9 evidence. 10 10 The precise question was, you know, the A. I mean, again, I don't know enough 11 epidemiology shows these findings. Whatever is 11 details about the biologic plausibility of each 12 the data in biology, does it support or does it 12 ovarian cancer subtype to say that, you know, 13 refute, you know, these findings in epidemiology? 13 talc would be, by chance, alone. I'd defer to, 14 Q. On that topic, biologic plausibility, 14 you know, people who evaluate these. 15 you defer to other experts; is that right? 15 Q. There is no one biological mechanism MS. PARFITT: Objection. 16 that could tie all of these subtypes together, is 16 17 A. Yeah. I would defer to other people 17 there? 18 for more details on, you know, precise mechanisms 18 A. I will defer to people with more 19 of ovarian cancer. 19 experience. I don't know that. What I know is 20 20 But I do have -- and I'm an epidemiologist. biological plausibility mechanisms that inform 21 I mean, I can't -- so that's why I just can't 21 the hypothesis that I was looking at. look at whether it's Cramer or Penninkilampi or Q. How does talc reach the ovaries? 22 22 23 Berge in isolation. We have to look at the whole 23 A. Well, you know, talc migrates from, you 24 evidence, including epidemiology, including --24 know -- my understanding and opinion is that, you 25 but, yes, I can -- I have that experience to 25 know, perineal application of talc, you know,

	Page 190		Page 192
1	migrates upwards and upwards through the, you	1	A. Yeah. I know that.
2	know, vaginal canal and migrates to.	2	Q. Ness is an expert for plaintiffs in the
3	Q. Is that an area of your expertise?	3	talc litigation; is that right?
4	A. Again, no. But I have reviewed the	4	MS. PARFITT: Objection.
5	studies, several studies that some studies	5	A. I'm not aware of that.
6	that I cite, several studies that were added.	6	Q. So Justin, that dealt with glove
7	And it's quite well accepted, at least in the	7	powder; is that right?
8	gynecological community, that there's, you know,	8	A. Which one was that, 68?
9	particulate matter can migrate upwards.	9	Q. 68.
10	Q. What studies support the theory that	10	A. Yes.
11	talcum powder applied externally migrates from	11	Q. Isn't it true that that study did not
12	the perineal region to the ovaries?	12	involve perineal use, but an exam with force to
13	A. Again, I reviewed various studies on	13	the cervix?
14	migration.	14	A. Yeah. You know, and I'm relying on it,
15	Q. Can you name them for me?	15	again, for biologic plausibility. It does not
16	A. I'm going to look at it.	16	involve talc. So, you know, it's glove powder
17	Yeah. So I cite several studies in this	17	in
18	section on migration. And, again, this in the	18	Q. Isn't it true that they found some
19	context of biologic plausibility. Is it	19	particles in women who were examined with
20	plausible that particulate matter, such as talc,	20	powder-free gloves?
21	can migrate? And, again	21	A. Yes.
22	Q. What page are you looking at?	22	Q. Heller, didn't Heller find talc in
23 24	A. Sorry. 57.	23 24	tissues in all 24 patients, including the 12 who
25	Q. What studies are you relying on?A. Yeah. So I'm relying on the studies	2 4 25	did not use perineal talc? A. Yes.
		23	A. 168.
	Page 191		Page 193
1	described by, you know, Heller, 64.	1	Q. What is the evidence in the ovarian
1 2	described by, you know, Heller, 64. Q. Any others?	2	Q. What is the evidence in the ovarian tissues that have been studied of granulomatous
	described by, you know, Heller, 64. Q. Any others? A. 65.	2	Q. What is the evidence in the ovarian tissues that have been studied of granulomatous reaction which is what you would see if there was
2 3 4	described by, you know, Heller, 64. Q. Any others? A. 65. Q. What is 65?	2 3 4	Q. What is the evidence in the ovarian tissues that have been studied of granulomatous reaction which is what you would see if there was a huge amount of talc?
2 3 4 5	described by, you know, Heller, 64. Q. Any others? A. 65. Q. What is 65? A. I'll have to go take a look.	2 3 4 5	Q. What is the evidence in the ovarian tissues that have been studied of granulomatous reaction which is what you would see if there was a huge amount of talc? A. Well, I mean, I'm not opining that
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	Page 194		Page 196
1	MS. PARFITT: Objection. Form.	1	history of breast cancer, had a tubal ligation or
2	A. I did not review those studies, if	2	hysterectomy, were pre-menopausal or were
3	there are.	3	post-menopausal and used HT."
4	Q. In your report, you say that, "The	4	Is that correct?
5	migration theory is supported by findings of a	5	A. Yeah.
6	deceased risk" strike that.	6	Q. So, in fact, Cramer did find a
7	In your report, you say that, "The migration	7	significantly greater association between talcum
8	theory is supported by findings of a decreased	8	powder use and ovarian cancer for women who had a
9	risk of ovarian cancer with tubal ligation and	9	tubal ligation; is that right?
10	hysterectomy." Pages 18 and 19.	10	A. Yeah. But my my point, in Page 57,
11	Is that right?	11	is that, you know, first of all, that's more than
12	A. Yes.	12	just one Cramer. There are several studies that
13	Q. Don't the studies pertaining to tubal	13	in inferring biologic plausibility, tubal
14	ligation show mixed results?	14	ligation and hysterectomy are protective of
15	A. No.	15	ovarian cancer. It is not that talc in this had
16	MS. PARFITT: Objection.	16	a higher risk among those.
17	A. As far as	17	I mean, those, again, those are not two
18	MS. PARFITT: Sorry.	18	incongruent arguments. I mean, Cramer is making
19	A. I mean, as far as I'm aware, you know,	19	a separate argument that, in his study, he found
20	tubal ligation and hysterectomy are protective	20	a higher risk among those who had tubal ligation
21	risk factors for ovarian cancer.	21	or hysterectomy.
22	Q. That's your opinion based upon your	22	Q. If you're correct in the opinion that
23	review and analysis of the literature; is that	23	you set forth in your report, you would have
24	right?	24	expected the Cramer study to show a decreased
25	A. Yeah.	25	risk of ovarian cancer for women who had tubal
	Page 195		Page 197
1	Q. Take a look at the Cramer article that	1	ligation or hysterectomy; correct?
2	we referred to before, Exhibit 24. This is	2	MS. PARFITT: Objection. Form.
3	Cramer 2016.	3	Misstates his testimony.
4	Do you have that in front of you?	4	A. Yeah. I mean, I don't I mean,
5	A. Oh, my copy?	5	that's probably, in that study. Yeah.
6	Q. Yes. You have a copy.	6	Q. How do you account for the fact that
7	A. Yes. Which page?	7	Cramer and the authors of this 2016 paper found a
8	Q. Take a look well, Cramer found a	8	significantly greater association among women who
9	significantly greater association between talcum	9	had a tubal ligation or hysterectomy?
10	powder use and ovarian cancer for women who had a	10	A. I have no you know, you can find
11	tubal ligation or hysterectomy. Isn't that true?	11	different studies have different findings, but,
12	A. Where is that?	12	overall, we know that tubal ligation and
13	Q. Look at the bottom of Page 337 of	13	hysterectomy are protective.
14	Exhibit 24 to the top of page look at 337.	14	Q. The Gertig 2000 Nurses' Health Study,
15	A. And which table?	15	that's also a study that you have reviewed; is
16	Q. I'm sorry. Look at the bottom of	16	that right?
17	Page 337, that carries over to the top of Page	17	A. Yes.
18	339. This is Cramer describing his results; is	18	Q. That study did not show a reduction of
19	that right?	19	ovarian cancer in talc users who have had a tubal
20	A. Yes.	20	ligation; correct?
21	Q. Tell me if I'm reading this correctly,	21	A. Which page is that?
22	and I'm starting at the bottom of Page 337.	22	Q. I'm just asking, based upon your review
23	"By test for interaction, Column 3, the	23	of that study.
0.4	association was significantly greater for women	24	A. I can't answer. You know, there are so
24			
25	who were African American, had no personal	25	many different can I ask for the Taher

	Page 198		Page 200
1	appendix, because that actually breaks it down by	1	talc users who had a tubal ligation; correct?
2	tubal ligation and hysterectomy.	2	A. I mean, I think I need to look at the
3	You're asking very specific questions. I	3	data. I think I don't have it. We are trying
4	need to have specific materials.	4	to get it, so we'll have to wait.
5	MR. TISI: I have them.	5	I mean, you're asking me questions. I mean,
6	Q. What are you asking for?	6	you have to show me documents. I mean
7	A. You asked a question about tubal	7	Q. Well, you made a statement in your
8	ligation.	8	report
9	Q. I understand. What are you asking	9	A. How can I make a statement in the
10	counsel for plaintiffs to get you?	10	report around Taher, because it wasn't even
11	A. The Taher appendix.	11	available at that time?
12	Q. You want to go back and look at the	12	Q. What I'm trying to do is ask you
13	Taher	13	A. Sure.
14	A. Appendix. Because they did stratify	14	Q about the statement in your report,
15	the analysis by hysterectomy and tubal ligation.	15	where you say that, "Migration theory is
16	Q. That's the 2018, unpublished paper; is	16	supported by findings of a decreased risk of
17	that right?	17	ovarian cancer with tubal ligation and
18	A. Yes.	18	hysterectomy."
19	Q. All right. Did the Houghton as	19	A. And I'm just stating that I just need
20	they're looking for this	20	to look at a figure in the Taher appendix and
21	A. Yeah. Sure.	21	then I'll be able to answer that. That's all.
22	Q. Did the Houghton two thousand strike	22	Q. Well, we saw that Cramer doesn't show
23	that.	23	that; right?
24	The Houghton 2014 study also did not show a	24	A. Yes.
25	reduction of ovarian cancer in talc users who	25	Q. You're not aware that Gertig 2000 or
	Page 199		Page 201
1		1	
1 2	have had tubal ligation; correct?	1 2	Houghton 2014 shows that. Are you?
2	have had tubal ligation; correct? A. Again, you know, I don't want to agree	2	Houghton 2014 shows that. Are you? MS. PARFITT: Objection. Misstates his
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	Page 202		Page 204
1	parts of Cramer 2016, Gertig 2000, Houghton 2014,	1	by findings of a decreased risk of ovarian cancer
2	Ter Riet 2013, Rosenblatt 2011, Wong 1999, Cook	2	with tubal ligation and hysterectomy.
3	1997, Harlow 1992, that don't support your	3	A. Yeah. But it doesn't talk about, you
4	position.	4	know so if you look at the reference, in
5	MS. PARFITT: Counsel completely	5	case-control studies and meta-analysis, let's
6	misstates his opinion. The question misstates	6	look at the references. You know, so, yes,
7	A. I don't even know what was the	7	there's one. And if let's look at
8	question, and I can't answer that because I don't	8	Q. Okay. Can you cite one reference?
9	know what the question was.	9	A. Yeah. Let's look at that.
10	Q. The question is: When you opined in	10	Q. All right.
11	your report that the migration theory is	11	A. Then let's look at 115. So when I cite
12	supported by findings of a decreased risk of	12	115, that's not even about talc. That's about
13	ovarian cancer with tubal ligation and	13	tubal ligation and hysterectomy, in general, is
14	hysterectomy, did you pick out just a couple of	14	it you know, so taking talc out of the
15	cases to look at and cite or did you try to see	15	equation, I'm trying to opine or understand
16	if there was consistency to that finding across	16	whether tubal ligation and hysterectomy are
17	all of the studies?	17	protective factors, and then I can infer on talc,
18	A. Yeah. So when I cite that, and you can	18	yes, should only Ness have been cited? Yes,
19	see the citation, I am trying to make an	19	there are other studies otherwise.
20	inference about separate from talc use, and	20	Q. And there are other studies, many
21	ovarian cancer, you know, is hysterectomy and	21	studies
22	tubal ligation protective of that.	22	A. Yes.
23	So that's the inference. It's not that each	23	Q that do not support your position;
24	of these studies, I'm trying to ignore, you know,	24	is that right?
25	the studies that you mentioned. I'm just trying	25	MS. PARFITT: Objection. Form. His
	Page 203		Page 205
1	to say, as you're looking at mechanisms, what	1	position on tubal ligation?
2	would happen with tubal I'm trying to do the	2	MR. ZELLERS: Yes.
3	best to explain, tubal ligation and ovarian	3	MS. PARFITT: Thank you.
4	cancer.	4	A. Yeah. So it's it's I think
5	If, in the individual studies, yes, as in	5	there's I mean, whether Ness and others should
6	Cramer, and if we see that in the other studies,	6	have been cited there, that's a valid point. But
7	then, you know, they provide a different opinion.	7	when I make a point about tubal ligation and
8	But I'm trying to make an opinion, based on the	8	hysterectomy, it's a general point on the, you
9	general knowledge of tubal ligation and	9	know, migration hypothesis.
10	hysterectomy being, you know, protective.	10	BY MR. ZELLERS:
11	Q. Do you agree with me, to have a	11	Q. You should at least cite to or make
12	scientifically valid opinion	12	some reference
13	A. Sure.	13	A. Yeah.
14	Q you need to look at all of or at	14	Q right, to the studies that do not
15	least the important studies; correct?	15	support that position?
16	A. Yeah. I did look at these studies.	16	A. Yeah. And I think that I have made it
			in the individual sections, and I can try to look
17	Q. And, in fact, a number of the studies	17	in the marviatal sections, and I can try to look
17 18	Q. And, in fact, a number of the studies that you cite in your report	18	for it, but it will take us time there.
18	that you cite in your report	18	for it, but it will take us time there. Q. Isn't there evidence that if tubal
18 19	that you cite in your report A. Sure.	18 19	for it, but it will take us time there.
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Page 208 A. — in, you know, this area to provide, you know, why it would do that. Q. Did you review or are you familiar with Tiourin, T-I-O-U-R-I-N, a 2015 study? A. Did I cite that? I don't remember. Q. Are you — is that study familiar to you. A. I just can't remember the names. There are so many studies. If you show it to me, I can — if it's familiar to you. And if it's not, I'll move on. Q. I'll show it to you. You can tell me if it's familiar to you. And if it's not, I'll move on. A. No, it's not I don't know about. By MR, ZELLERS: Q. For the record, 25 is a 2015 study by Tiourin, T-I-O-U-R-I-N. Description of the ovaries, shouldn't exposure; to talc be far greater in concentration in the rectal, vulvar, vaginal, cervical and uterine tissues which are closer to the area of in initial exposure? MS. PARFITT: Objection. Misstates the exidence of the initial exposure? MS. PARFITT: Objection in terms of where it will be high or low. Because that's not my area of expertise. Q. I'll show it to you. You can tell me it is fis familiar to you. And if it's not, I'll move on. A. No, it's not. I don't know about. By MR, ZELLERS: Q. For the record, 25 is a 2015 study by Tiourin, T-I-O-U-R-I-N. Description of the ovaries, shouldn't exposure to talc be far greater in concentration in the rectal, vulvar, vaginal, ervical and uterine tissues which are closer to the area of in the rectal, vulvar, vaginal, ervical and uterine tissues which are closer to the rare of the initial exposure? MS. PARFITT: Objection. A. Again, that's — that's, you know, I'm opining on biological plausible mechanisms. Q. In fact, there are no studies that show a link begain that show a link begain that show a link between external genital tule use in any of those areas; correct? MS. PARFITT: Objection. Misstates the evidence ovarian cancer. I ddn't look at, you know, the tries, you know, the there are no studies that that's not my area of expertise again. Q. In fact, there are no studies that that some the princal application. MS. PARFITT: O				
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24 from the perineal region to the ovaries, the 24 A. Sure.	23		23	
	24		24	
25 exposure to talc would be far greater in 25 Q. Huncharik 2007 is a meta-analysis of	25	exposure to talc would be far greater in	25	Q. Huncharik 2007 is a meta-analysis of

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studies on the relationship between ovarian cancer and using diaphragms that are dusted with talcum powder; is that right?

A. Yes.

Q. A diaphragm is inserted directly onto a woman's cervix; is that right?

A. Yes.

Q. On Page 26 of your report, you say that, "This meta-analysis is flawed because it only focuses on powder-dusted diaphragms"; correct?

A. Well, no. That's not the only flaw. I mean, there are several other flaws, including exclusion of loss category, data extraction analysis, which is, you know, really inclusion of inability studies that did not disaggregate.

I mean, the question is if you're asking about perineal exposure, yes, perineal -- diaphragms is one route of exposure. But that's not the only route of exposure that you should be concerned about.

Q. Do you state in your report, "The most important limitation with the Huncharik 2007 meta-analysis was its exclusive focus on talc powder-dusted diaphragms as the route of

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means that you cannot exclusively focus on one route of exposure. So it does not mean that it cannot in and of itself. You have to look at perineal-dusted diaphragm. You have to look at, other, you know, perineal applications.

Q. So putting aside inhalation for the moment, your opinion is that talcum powder travels from the perineal region to the ovaries through the woman's reproductive tract; is that right?

A. I mean, I don't even know through the ovaries. I know it migrates upwards. That's, you know, my opinion.

Q. So talcum powder must travel past the labia, through the vagina, through the cervix, and then to the uterus; is that right?

A. Yes. It migrates upwards through the vagina, you know, the tract.

Q. And then the powder travels through the uterus and into the fallopian tubes to reach the ovaries; is that right?

A. Well, I mean, I'm not -- again, I don't intend to elucidate, you know, the precise link that a study has shown that talcum powder -- I think we answered this earlier, I answered this

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exposure, which could not inherently address the causal question of whether genital talcum powder dusting is associated with increased risk of ovarian cancer"?

Is that what you said?

MS. PARFITT: Counsel, do you have a copy of the -- otherwise, may I show him the Huncharik study so he's got it in front of him?

MR. ZELLERS: I'm just asking general questions right now. That was just a question, does he say that in his report. If he needs to review the study, then he can look at the study.

MS. PARFITT: I would appreciate that. MR. ZELLERS: Sure.

MS. PARFITT: I just didn't want to pass something to him without your permission.

A. Yeah. I do state that.

Q. You say that, "Studies on the use of talcum powder-dusted diaphragms cannot address the question of whether perineal use is associated with an increased risk of ovarian cancer": correct?

A. Where is that?

Q. It's what we just read.

A. No. It doesn't mean that. It just

Page 213

earlier -- that I am not aware of one study that
 shows that. But, you know, several shows that
 talc ends up in the ovaries.
 Well given how talc talcum powder

Q. Well, given how talc, talcum powder must travel to reach the ovaries, how can you exclude data about the relationship between ovarian cancer and talcum powder that is applied directly to the cervix?

MS. PARFITT: Objection. Misstates his testimony.

A. Nobody is excluding data. So this is not exclusion of this data.

But I am saying that this particular question of talc-dusted diaphragms, A, is an exclusive focus on one route of exposure, so it does not answer the causal question about perineal exposure.

And, two, it is not excluded. It's included and discussed and several flaws are noted, including, you know, data extraction errors for the most part, inclusion of studies.

And so -- and as can you see in my methodological rating of meta-analyses, it is weighted differently than others. So it is not excluded.

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question.

right?

O. And studies do not show an increase in

rectal cancer with talcum powder use; is that

A. I don't answer the questions that I

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Page 214 Page 216 1 Q. But you state, as the most important 1 don't know anything about. I don't -- you know, 2 2 limitation of the Huncharik 2007 study, is the I haven't reviewed it to answer that question. 3 exclusive focus on talc powder-dusted diaphragms. 3 Q. Do you have an opinion on whether 4 A. Yeah. 4 inhaled talc can migrate to the ovaries? 5 Q. And those diaphragms are applied 5 A. Yeah. I mean, I think the primary 6 directly to the cervix; is that right? 6 route of exposure is, you know, reproductive, but 7 A. Yeah. Because -- because of its 7 there are some potential, I would say, you know, 8 exclusive focus. If the study had, you know, 8 potential plausible mechanisms that, you know, 9 other routes of exposure, yeah. 9 when perineal application is applied, it can get 10 What I'm trying to say is its exclusive 10 inhaled through the lungs and potentially reach 11 focus on one route of exposure cannot -- if 11 the ovaries. But I think that that mechanism is you're just asking the question about dust, 12 12 probably not as plausible as the reproductive dusted diaphragm, then don't make inferences 13 13 mechanism. 14 about perineal routes of exposure. You have to 14 Q. Well, in fact, studies of talcum powder 15 look at broader exposures. 15 use failed to show a statistically significant 16 Q. On what studies are you relying to say 16 association between nongenital use of talcum 17 that talcum powder affects the body differently 17 powder and ovarian cancer; correct? when it is applied to the perineal region and 18 18 MS. PARFITT: Objection. Form. travels to the cervix compared to when it is 19 19 A. Yeah. And I've cited those studies. 2.0 applied directly to the cervix? 20 Q. If inhaled talc could migrate to the 21 A. I have not made a distinction between 21 ovaries, wouldn't you expect to see increased 22 those studies. 22 ovarian cancer risk with nongenital use of talcum 23 Q. And, in fact, when applied to the 23 powder? perineal region, the talcum powder would also be 24 24 MS. PARFITT: Objection. 25 in close contact with a woman's urethra; is that 25 A. Well, I mean, it also depends on, you Page 217 Page 215 1 know, the quantity of inhalation, the degree of 1 right? 2 2 MS. PARFITT: Objection. Form. talc that's -- and I don't know enough about that 3 3 to say that, yes, there's a sufficient quantity, A. Yeah. I mean, anatomically. you know, migration to cause that. I don't know 4 Q. Substances are capable of traveling up 4 5 5 which studies have evaluated sort of inhaled talc the urethra; correct? 6 A. I mean, yes. Just as we agree that, 6 and ovarian cancer. 7 you know, talc can migrate upwards, substances 7 Q. Well, let's look back at Cramer 2016, 8 can migrate through the urethra. If you agree 8 Page -- or Exhibit 24. Do you have that in front 9 talc can migrate upwards, then, you know, 9 of you? 10 substances can migrate through the urethra. 10 A. Yeah. Q. Women get urinary tract infections when 11 11 Q. In that study, Cramer found no apparent risk associated with nongenital talc use; isn't 12 bacteria travels up the urethra; correct? 12 13 A. Yeah. 13 that correct? 14 Q. But studies do not show an increase in 14 A. Yeah. And I think I cite that in my 15 bladder cancer with talcum powder use, do they? 15 report, too. 16 MS. PARFITT: Objection to form. 16 Q. You don't disagree that Cramer, in his A. I did not ask the causal question about study, 2016, did find no apparent risk associated 17 17 18 that. And, you know, I have not evaluated. 18 with nongenital talc use; correct? A. Yeah. 19 Maybe there are studies that show decreased risk 19 20 for all that I know. I just can't answer that 20 Q. The same result was found in the pooled

55 (Pages 214 to 217)

analysis that was done by OCAC, Ovarian Cancer

are you referring to? What year? There have

MS. PARFITT: Objection. Which study

Association Consortium; is that right?

been many studies by OCAC.

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Page 218 Page 220 MR. ZELLERS: I'm referring to Page 341 mechanisms that have been shown in terms of 1 1 2 of the Cramer article. Page -- strike that. 2 increase in, you know, inflammatory enzymes, and 3 3 The second and third paragraphs. increase in alterations of redox potential that 4 BY MR. ZELLERS: 4 are some of the potential plausible biological 5 5 Q. Tell me when you have that, Doctor. mechanisms. Again, other people who are A. 341. Discussion? 6 biological experts will opine on them and detract 6 7 7 O. Yes. So in the second and third from the strengths and weaknesses. 8 8 Q. You have not done an expert review of paragraph, I'm reading the second sentence. 9 9 "Talc use regularly" -- strike that. inflammation evidence yourself; correct? 10 "Talc used regularly in the genital area was 10 A. When you say -- I mean, expert review 11 associated with a 33 percent increase in ovarian 11 of inflammation. cancer risk overall while no apparent risk was 12 12 MS. PARFITT: Object. 13 associated with talc used only in nongenital 13 Q. You're deferring to other experts on 14 areas." 14 the topic and subject of inflammation; is that 15 A. Yeah. And I agree with their opinion. 15 right? 16 Q. All right. Do you also agree with the 16 MS. PARFITT: Objection. 17 next sentence? "Our results are consistent with 17 A. Yeah. I mean, other experts, I mean, I can look at the evidence and see, A, one, that 18 the recent pooled analysis from the OCAC which 18 19 reported that use of powder on genitals is 19 inflammation plays a role in cancer. Two, 20 associated with a 24 percent increased risk and 20 inflammation plays a role in ovarian cancer. 21 no effect of nongenital use of talc." 21 At least my opinion is that, you know, talc 22 A. Yeah. 22 can, you know, induce inflammation; others will 23 Q. Have you ever performed any study 23 provide more detailed opinion. 24 24 yourself pertaining to whether inhaled talc can Q. In terms of the mechanism by which 25 migrate to the ovaries? 25 ovarian cancer may or may not be related to Page 219 Page 221 1 A. No. And I would have a different job. 1 inflammation, you are deferring to other experts; 2 2 That's not my area of expertise. correct? 3 Q. And you can't, as we sit here, cite me 3 MS. PARFITT: Objection. Misstates his 4 to such a study; correct? 4 testimony. He just told you --5 A. Well, I don't know if it's -- I'll go 5 MR. ZELLERS: I'm asking him the 6 back to my report and just cite that -- that 6 question. Okay? 7 Dr. Luongo, you know, has done analyses which say 7 MS. PARFITT: Counsel, he did answer 8 that inhaled talc can migrate. 8 it. And you just asked the question again and 9 Q. You're not expressing that opinion here 9 you misstated what he said. 10 10 MR. ZELLERS: Ms. Parfitt, please. I today: correct? 11 A. No. I'm not. I'm not vouching for his 11 thought we had a discussion. 12 testimony. 12 MS. PARFITT: We did. 13 Q. Assuming baby powder can reach the 13 MR. ZELLERS: We ought not to have ovaries, what is the method by which baby powder 14 14 speaking objections. causes ovarian cancer? MS. PARFITT: We don't. But I'll tell 15 15 you the discussion we did have. You can't 16 A. So, yeah. I mean, we talked about, you 16 17 know, potential biological mechanisms of 17 misstate --18 18 MR. ZELLERS: I'm allowed to ask the 19 And, again, I don't -- in my inference on 19 witness what his opinions are and are not. 20 biologic plausibility, I don't intend to offer 20 MS. PARFITT: Absolutely. But not to the opinion that, A, I know the precise misstate them. That's all. Let's ask it again. 21 21 biological mechanisms which cause biological --22 22 THE WITNESS: I'm sorry. I forgot. 23 ovarian cancer or the precise steps by which talc MR. ZELLERS: It was a question. 23 24 causes it. 24 THE WITNESS: What was the question? 25 But, you know, there are several, you know, 25 MR. ZELLERS: Can you read the

Page 222 Page 224 1 question? 1 Q. Rheumatoid arthritis doesn't increase 2 2 the risk of ovarian cancer, does it? MS. PARFITT: Listen carefully to the 3 question. 3 A. I don't know that question. I have not 4 4 MR. ZELLERS: Okay. Again, evaluated it. 5 Ms. Parfitt, let the witness handle himself. Q. Psoriasis does not increase the risk of 5 6 He's an experienced, capable person. 6 ovarian cancer, does it? 7 MS. PARFITT: Yes. I would certainly 7 A. For all, it could. We don't know that. 8 both agree with that. He's quite good. 8 We can spend time reviewing that. We can't 9 (The question was read by the 9 answer questions. 10 reporter, as requested.) 10 Q. We're here to talk about the science; 11 MS. PARFITT: Objection. Misstates his 11 correct? 12 12 A. Yeah. So the science, you have to testimony. 13 A. No. To the extent that my causal 13 look -- I haven't looked at psoriasis and cancer. 14 question needs -- you know, evaluated the 14 I haven't looked at, for example, rheumatoid 15 evidence on the link between, you know, 15 arthritis increases cardiovascular disease, 16 inflammation, ovarian cancer and talc and 16 because I've looked at it. I can't answer 17 inflammation, I can opine that, you know, this 17 questions that I haven't looked at. 18 link supports my causal opinion. Whereas, to the 18 Q. Have you done an expert review of the 19 precise details of such a link, I would obviously 19 role of inflammation in causing ovarian cancer? 20 defer to other experts. 20 Have you personally done that review? 21 BY MR. ZELLERS: 21 A. No. I have just looked at, you know, 22 Q. Not all inflammatory conditions lead to 22 what is the role of inflammation in ovarian 23 23 cancer, and are there plausible biological cancer: correct? 24 24 mechanisms that either support or refute whether A. Yes. And there are pro-oxidant 25 conditions and there are antioxidants. And I 2.5 talc can induce inflammation. Page 223 Page 225 1 1 Q. How does an acute inflammatory response examined the evidence which relates to if there 2 2 were -- you know, if talcum powder products, for 3 example, had antioxidants or, in the Saed study, 3 A. Yeah. I mean, and I'm not making a case for an acute inflammatory. I'm not sure. 4 they increased the level of antioxidant enzymes, 4 5 then that would be evidence against the link 5 Did I state that? You know, this is a chronic 6 between redox potential and talc and ovarian 6 inflammatory process. 7 cancer. So there are various pieces of the 7 Q. What evidence is there that externally 8 8 applied talcum powder causes chronic evidence. 9 9 inflammation? Q. All of us experience inflammatory 10 reactions of one sort or another, including 10 A. Yeah. I mean, you know -- can you give chronic conditions, and they do not all lead to 11 11 me a second? 12 cancer: correct? 12 Q. Sure. 13 MS. PARFITT: Objection. Form. 13 A. Yeah. I'm not aware of a study that talc specifically itself causes chronic 14 A. Yeah. But it's the balance of -- you 14 know, that is altered between pro-inflammatory 15 15 inflammation. 16 and anti-inflammatory conditions and the 16 Q. There are no reports in the literature 17 pro-oxidant state and the antioxidant state in my 17 of externally applied talc leading to inflammation, granulomas, fibrosis or adhesions 18 understanding that, you know, is a plausible 18 19 mechanism for talc in ovarian cancer. Again, 19 anywhere along a woman's reproductive tract; 20 based on my understanding. Others will provide 20 correct? 21 21 details. MS. PARFITT: Objection. A. Yeah. There are other studies that, 22 Q. Rheumatoid arthritis is an inflammatory 22 23 23 you know, not externally applied. condition; right? 24 A. Heart disease is -- everything is 24 Q. If up to 50 percent of U.S. women have 25 inflammation. 25 used genital talc, shouldn't this be a common

	Page 226		Page 228
1	finding?	1	A. Yeah. And I think it's the studies on
2	MS. PARFITT: Objection. Form.	2	NSAIDs. I don't remember the precise I don't
3	A. So I'll step back and share with you	3	know if yeah. It's Ness or
4	what epidemiology.	4	Q. I will and do intend to ask you a few
5	Yeah. I mean, ovarian cancer, the incidence	5	questions about NSAIDs and about some of those
6	of ovarian cancer is, what, 11 by 100,000. It's	6	studies.
7	a very rare cancer. Even if 50 percent use it,	7	A. I think that's where
8	you know, it increases, you know, it affects it.	8	Q. Well, let me talk about or ask you a
9	So we are not nobody is saying that,	9	question about a study that you do cite in
10	yeah, every woman who gets talc will get it. So	10	support of your inflammation opinion. You rely
11	just because there's an increased risk with talc,	11	on is it Saed 2018 article?
12	how much of the U.S. population should get	12	A. Yes.
13	ovarian cancer is a different question. That's	13	MR. ZELLERS: I'll hand you the Saed
14	not what I estimated.	14	2018 paper.
15	That's you're asking a question about	15	(Article entitled "New Insights
16	attributable risk and population attributable	16	into the Pathogenesis of Ovarian Cancer:
17	risk. Some have attributed it to 10 percent,	17	Oxidative Stress" marked Exhibit 26.)
18	40 percent. I haven't done that estimation.	18	MS. PARFITT: Thank you.
19	MR. KLATT: Move to strike.	19	MR. ZELLERS: We'll mark that as
20	Nonresponsive.	20	Deposition Exhibit 26.
21	MR. ZELLERS: Join.	21	BY MR. ZELLERS:
22	Q. Granulomas, fibrosis or adhesions don't	22	Q. This is a study that you cite in
23	cause ovarian cancer; correct?	23	support of your position; is that right?
24	MS. PARFITT: Objection.	24	A. I don't know if I cite it as a support
25	A. I'm not aware of precise biological	25	of my position. I cite it as an article that
	Page 227		Page 229
1	mechanisms of, you know, ovarian cancer.	1	shares insight into the parthenogenesis of
2	Q. Isn't the theory of inflammation as a	2	ovarian cancer. I mean, you know, he's the
3	cause of ovarian cancer an unproven hypothesis?	3	expert and he'll form his opinion.
4	MS. PARFITT: Objection.	4	So it's a study cited in my report. In
5	A. Well, it's a plausible hypothesis that,	5	fact, I won't even be able to discuss the details
6	you know and it's well accepted that, you	6	of that study with you.
7	know, one of the mechanisms is inflammation.	7	Q. You're not comfortable discussing the
8	Q. It's still unproven; correct?	8	details?
9	MS. PARFITT: Objection. Misstates	9	A. Yeah. I mean
10	testimony.	10	MS. PARFITT: Objection.
11	A. Well, I'm not my standard wasn't	11	A you can ask a question and I'll try
12	looking at absolute certainty that, A, talc	12	to answer to the best of my ability. And if I
13	induces inflammation, and inflammation causes	13	won't, I'll be able
14	ovarian cancer. I'm looking for evidence for or	14	Q. The point is, this is really an area
15	against whether inflammation, you know, induces	15	for other experts; agreed?
16	or reduces ovarian cancer.	16	A. Yes. This is an area for other
17	Q. What studies or evidence do you cite in	17	expertise.
18	your report against the proposition or theory	18	Q. Saed, that paper just looked at
19	that inflammation is a cause of ovarian cancer?	19	immortalized cell lines; is that right?
20	A. Yeah. I think I'm sorry. The	20	MS. PARFITT: Objection. Form.
21	question was what studies	21	A. Yes.
22	Q. You told me it was important to cite	22	Q. The authors do not identify what either
23	both the studies that support your position and	23	the positive or the negative controls were; is
24	also the studies that refute your position; is	24	that right?
25	that right?	25	MS. PARFITT: Objection.

Page 230 Page 232 1 A. So is this the study or is this just 1 users? 2 2 their review article? A. Yeah. So I don't know if that's 3 3 Q. This is the paper that you cite to in consistently. But as I mentioned earlier, and I 4 4 may have cited it in this study, that when I your report. 5 A. Can you point out in my report which 5 talked about Ness, and I'm trying to find it, reference number is that? I know I've cited but, yes, there is, you know, NSAIDs have not 6 6 7 them, but I'm just trying to orient myself. 7 been -- they don't consistently reduce the risk 8 Q. Are you familiar with this paper? Have 8 of ovarian cancer, but in some studies, they have 9 you looked at it before? 9 shown to reduce the risk of ovarian cancer. 10 A. Yes. I have looked at this paper, but 10 Q. If, in fact, inflammation was a they also have other abstracts and other papers. 11 causative factor in ovarian cancer, and if NSAIDs 11 I think that's what I was relying on. 12 and aspirin use reduce inflammation, wouldn't you 12 13 Yeah. So I'm relying on this and 125, Saed. 13 expect some consistency in the studies that would 14 Q. The authors in this paper that you 14 show NSAIDs and aspirin use reduced the incidence 15 support -- strike that -- that you cite and are 15 of ovarian cancer? relying on do not identify what either the 16 A. So, first of all, you're asking a broad 16 positive or the negative controls were; correct? 17 question. Inflammation. What do you mean by 17 MS. PARFITT: Objection. Misstates the 18 18 19 And I don't know -- yeah. Exactly. So I 19 evidence. 20 A. Let me just look at 125, and then I'll 20 don't know the precise biological mechanisms of ovarian cancer. And just because the ovarian 21 answer the question. 21 22 No. That's not 125. 22 cancer-mediated inflammation is different from, 23 Q. I'll move on and ask another question. 23 you know, anti-inflammatory, so both may be 24 entirely consistent, I'm not saying they are, but A. Sorry about that. 24 Q. That's all right. 25 both mechanisms, you could have NSAID-induced 25 Page 231 Page 233 1 Saed references unpublished data; correct? 1 reduce inflammation and NSAID-induced increase MS. PARFITT: Objection. 2 2 inflammation. That's just not what -- that area 3 A. Yeah. And I've just been informed by 3 where other people will provide, you know, more counsel that it has been accepted for 4 4 testimony. 5 publication, but the data that I -- that I 5 Q. If inflammation is the issue, why would б referenced were, you know, at the time, available 6 cornstarch be a superior alternative to talc? 7 7 as abstracts. MS. PARFITT: Objection. Form. 8 O. And to give you context, the FDA banned 8 O. Saed referenced -- references unpublished data that you rely on in coming up 9 9 the use of cornstarch on surgical gloves because with at least some of the opinions in your 10 10 of the risk of inflammation, granulomas, report; is that right? 11 fibrosis, adhesions and irritation; is that 11 12 A. Yeah. I mean, it's one of the, you 12 right? 13 know, number of studies that I reviewed. It's 13 A. I'm not aware of all the particular, not the only study on, you know, on biological 14 14 you know, regulatory actions on cornstarch. 15 Q. Take a look at the FDA 21 C.F.R, parts 15 mechanisms. 16 Q. Why doesn't inflammation generally, for 16 878, 880, and 895. 17 example, in pelvic inflammatory disease, cause 17 MR. ZELLERS: We'll mark that as 18 ovarian cancer? 18 Deposition Exhibit 27. 19 A. Again, that's not -- you know, that is 19 (Federal Register, Vol. 81, No. not -- I'm not going to be opining on the precise 20 20 243 marked Exhibit 27.) mechanisms of ovarian cancer in my testimony or 21 BY MR. ZELLERS: 21 my report. That's not my area of expertise. 22 22 Q. If you look at the second page, first 23 Q. Why don't NSAIDs and aspirin use, which 23 paragraph, last sentence, so I'm under executive 24 supposedly reduce inflammation, consistently 24 summary. The last sentence in the last full 25 reduce the incidence of ovarian cancer in chronic paragraph.

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Page 234 Page 236 1 "However, the use of powder on medical 1 is that right? 2 2 gloves presents numerous risks to patients and A. I don't disagree -- what I am trying to 3 3 healthcare workers, including inflammation, define precisely confounding is that, you know, 4 granulomas, and respiratory allergic reactions." 4 it creates a different relationship, had the 5 5 Did I read that right? confounder not been present, and I'm just trying 6 6 to say how it does that. A. Yeah. 7 7 MS. PARFITT: Do you know where it is? It's associated with the outcome. It's 8 8 Mm-hmm. associated with the exposure and not, you know, 9 9 A. Okay. and not on the --10 Q. Why, then, given that, would cornstarch 10 Q. Let's use an example, so we're sure 11 be considered a superior alternative to talc? 11 we're talking about the same thing. 12 MS. PARFITT: Objection. Form. 12 If you are studying the association between 13 A. Am I -- did I state in my -- I mean, 13 coffee and pancreatic cancer, you need to be 14 you know, I'm not evaluating the causal role of 14 mindful of whether cigarette smoking is more 15 cornstarch and, you know, its role in ovarian 15 common in coffee drinkers than in the rest of the 16 cancer. I'm not even aware of the existence of 16 population; correct? 17 this document and what it pertains to. 17 A. Yes. 18 I don't see any reference to cornstarch 18 Q. Cigarette smoking could be a confounder 19 here. I don't evaluate how they regulate various 19 in that situation; is that true? 20 products, whether it's food or cornstarch. 20 A. Well, so there are several parts to 21 Q. Are you familiar with the term 21 that. Just because it's more common in coffee 22 "confounding"? 22 drinkers does not make it a confounder. To make 23 A. Yes. 23 a confounder, you have to have three specific. 24 24 What you're talking is, yeah, it's associated Q. That's where the presence of another with coffee. But is it associated with 25 association confuses the relationship between the 2.5 Page 237 Page 235 1 exposure and disease being studied; correct? 1 pancreatic cancer? Is it on the causal pathway? 2 2 A. I don't -- I don't think that's the So a confounder is a very precise 3 3 epidemiologic term. It's not just everything we definition of confounding. 4 Q. What is wrong with that definition? 4 pull off the air and say because it's associated 5 A. Confusion is not an epidemiologic term. 5 with the coffee, it becomes a confounder. 6 There's no such thing as confusion in 6 Q. Listen to my question. 7 epidemiology. You have bias. You have 7 A. Sure. 8 8 misclassification. You have measurement error. Q. Cigarette smoking could be a confounder 9 Confounding is a case where you have a 9 in my hypothetical; right? 10 10 variable that's related to the outcome and A. If it was associated with pancreatic 11 cancer and not present in the causal pathway and, that's, you know, maybe associated with the 11 12 exposure and is not on the causal pathway between 12 obviously, associated with coffee. 13 exposure and outcome. 13 Q. Because if more coffee drinkers are 14 And, you know, it creates an artifactual 14 smokers than non-coffee drinkers --15 relationship between exposure and outcome. 15 A. It could be the other way around. Q. Confounding and confusion are similar 16 16 Q. Exactly. An association between coffee 17 17 drinking and pancreatic cancer might be due to terms; correct? 18 A. No. They're not. Confounding is a 18 smoking and not the coffee drinking; correct? 19 scientific term. Confusion is layman from that. 19 A. Yes. 20 I don't think it has -- at least in my term, I 20 Q. Confounding can distort results in 21 don't --21 epidemiological studies; is that right? 22 Q. So you disagree that confounding 22 A. Yes. And you have to adjust for 2.3 relates to the presence of another association 23 confounding. 24 which potentially confuses the relationship 24 Q. Residual confounding is possible in 25 between the exposure and disease being studied; 25 every occupational study; is that right?

Page 238 Page 240 MS. PARFITT: Objection. 1 1 But most importantly, just because, A, first 2 A. Sorry. Can you repeat the question? 2 of all, are they associated with the outcome? MS. PARFITT: Here it is. 3 3 Then you have to ask, are they causally 4 Q. Sure. Residual confounding is possible 4 associated, and they would have to be associated 5 5 in every observational study; correct? with the exposure talc to be considered a 6 confounder, just because they're a risk factor. 6 A. Observational. Yeah. 7 7 It is possible; right? Is that what you Every risk factor need not be controlled in a study. You have to be associated with the 8 8 said? 9 9 Q. Yes. exposure to, you know, consider the confounder. 10 A. Yeah. Residual confounding is possible 10 That is the precise definition of because you can't measure, you know, every 11 confounding, is you have to be associated with 11 variable that you can think of. the exposure. You have to be associated with the 12 12 13 Q. And unmeasured confounders may be 13 outcome. And you can't be on the path. 14 present in every observational study; correct? 14 So just because chlamydia -- let me finish. 15 15 A. Yeah. There's always the potential for Chlamydia, A, has a risk factor of ovarian 16 unmeasured confounding. It doesn't mean that it 16 cancer. If I design a study tomorrow for X and 17 17 ovarian cancer, you know, I'm not going to exists. consider it a confounder for my analysis. 18 18 Q. It's impossible to say that all known and unknown confounding factors have been 19 Q. Confounders can distort the results in 19 20 controlled for in any given study; correct? 20 epidemiological studies; correct? 21 A. You don't -- you know, what you don't 21 MS. PARFITT: Objection. Form. 22 know, you can't control for. 22 A. Yeah. We've discussed that, I think. Q. In this case, new factors possibly 23 23 THE WITNESS: We'll take a break. If involved in ovarian cancer are just being 24 24 you want to finish this confounding thing. published in the literature; is that right? 25 MR. ZELLERS: No. We can take a break 25 Page 239 Page 241 1 MS. PARFITT: Objection. Vague. 1 now. 2 2 MS. PARFITT: Good. Thank you. A. Yeah. I don't -- I don't know what THE VIDEOGRAPHER: This ends Media 3. 3 you're like -- just give me an example so I 3 4 can --4 Off the record, 2:17 p.m. 5 5 (A recess was taken.) Q. Okay. History of chlamydia infection THE VIDEOGRAPHER: Here begins Media 6 and history of weight gain during adolescence are 6 7 two recent examples that are being published in 7 No. 4 in today's deposition of Sonal Singh, MD, 8 the literature as factors possibly involved with 8 M.P.H. Back on the record, 2:29 p.m. 9 ovarian cancer; correct? 9 BY MR. ZELLERS: 10 10 Q. Dr. Singh, in your report, at Page 54, MS. PARFITT: Objection. Form. Paragraph 7, you address the subject of A. I haven't seen them. But I mean, 11 11 12 weight gain has been adjusted for in several of 12 confounding in studies of talcum powder use and 13 the analyses. So I don't know about that. Yeah. 13 ovarian cancer; is that right? 14 Q. Well, let's assume --14 A. Yes. A. We're talking about chlamydia. 15 Q. On Page 54 of your report, you state, 15 O. Let's assume that that's correct. "Although there are some risk factors for ovarian 16 16 cancer," and then it continues, "for any of them 17 Those factors, history of chlamydia 17 18 infection and history of weight gain during 18 to be confounding to an extent that could account 19 adolescence, those factors were not controlled 19 for the positive relations that have been 20 reported, they would have to be strongly 20 for in any of the published talc-ovarian cancer 21 studies, were they? 21 correlated with talc use. Family history, ethnicity, obesity and some reproductive risk 22 MS. PARFITT: Objection. Form. 22 factors are positively associated with the risk 23 A. Yeah. So if they're not known, first 23 of ovarian cancer, but the magnitude of these 24 of all, you have to evaluate and, you know, is 24 25 that a true -- true association? 25 associations does not appear high enough to

introduce enough confounding either jointly to explain completely the positive associations. And it should be the positive association. A. Yes. Q. Is that the statement that you make? A. Yes. Q. Is that the statement that you make? A. Yes. R. Yes. But partly because I couldn't factors, which we know are risk factors. And so that — so the issue that I — prior to the statement, states that — these other risk factors, which we know are risk factors for ovarian cancer. Q. Is this your statement that you made here? A. Yeah. Let me just explain what I did here. Q. That was a simple question. A. Yeah. It is my statement. A. Yes. But it is about the fact that we don't have you know, family history, ethnicity, obesity and reproductive factors associated, but Page 243 these associations, as it relates to tale use, we don'th have data on how these — to be considered a confounder, they have to be associated with tale use. We don'th have data on that. Q. All right, Now, do you know who Ken Rothman is? A. Yeah. He has written a textbook on epidemiology. Q. He is a well-respected. Q. It is not he last page. M. ZELLERS: I'm going to mark that paper as Exhibit 28. MS. PARFITT: Thank you. MS. PARFITT: Thank you. MR. ZELLERS: You're welcome. BYMR. ZELLERS: BYMR. ZELLER		7 040		- O44
2 explain completely the positive associations. 3 And it should be the positive association. 4 A. Yes. Q. Is that the statement that you make? 6 A. Yes. 7 Q. There's no citation for that statement; 1 is that right? 9 A. Yes. But partly because I couldn't 10 find evidence—and, you know, about the risk of talcump powder use and these risk factors. And so 12 that—so the issue that I—prior to the 13 statement, states that—these other risk of 14 factors, which we know are risk factors for ovarian cancer. 6 Q. Is this your statement that you made here? 16 Q. Is this your statement that you made here? 17 here 18 A. Yeah. Let me just explain what I did lare here. 19 Q. Have I read your statement? 20 Q. Have I read your statement? 21 A. Yes. But it is about the fact that we don't have, you know, family history, ethnicity, obesity and reproductive factors associated with talc use. We don't have data on that talc use. We don't have data on that. 5 Q. My question just is: Did you write that? 6 A. Yeah. He has written a textbook on epidemiology. 7 A. I did, Yeah. 8 Q. All right. Now, do you know who Ken Rothman is? 9 A. Yeah. He has written a textbook on epidemiology. The proposition of the best; is that right? 10 A. Yeah. He has written a textbook on epidemiology. The proposition of the best; is that right? 11 A. Yeah. He's well respected. 12 Q. I've looked at your report and your report in front of you, Page 54:0? 13 A. Yeah. I man, have a c		Page 242		Page 244
And it should be the positive association. A. Yes. Description of the statement that you make? A. Yes. Description of the statement that you make? A. Yes. Description of the statement that right? A. Yes. But partly because I couldn't find evidence — and, you know, about the risk of talcum powdre use and these risk factors. And so that — so the issue that I — prior to the statement, states that — these other risk of talcum powdre use and these risk factors. And so that — so the issue that I — prior to the statement, states that — these other risk of talcum powdre use and these risk factors. And so that — so the issue that I — prior to the statement, states that — these other risk of talcum powdre use and these risk factors. And so that — so the issue that I — prior to the statement, states that — these other risk of talcum powdre use and these risk factors. And so that — so the issue that I — prior to the statement, states that — these other risk factors for ovarian cancer marked in the paper as Exhibit 28. Do you see that? A. Yes. But fire powdre use and these risk factors. And so that — so the issue that I — prior to the statement, states that — these other risk factors for ovarian cancer. Do you see Exhibit 28. MR. ZELLERS: Tim going to mark that paper as Exhibit 28. MR. PARTIT: Thank you. MR. ZELLERS: You're welcome. BY MR. ZELLERS: BY MR. ZELLERS: You're welcome. BY MR. ZELLERS: On you see that? A. Yes. BY MR. ZELLERS: You're welcome. Therefore and ovor in frost of the paper and your and interpretation of Epidemiologic Studies of Exhibit 28. The stating and data considered. A. Yes. By MR. ZELLERS: Tho you're welcome. BY MR. ZELLERS: BY MR. ZELLERS: The last and Ovarian Cancer' marked Exhibit 28. A. Yes. La and Ovarian Cancer. The last and Ovarian Cancer' marked Exhibit 28. The last and Ovarian Cancer. The last and Vala and the sex Exhibit 28. The last and Vala and the se				
4 A. Yes. 5 Q. Is that the statement that you make? 6 A. Yes. 7 Q. There's no citation for that statement; 8 is that right? 9 A. Yes. But partly because I couldn't 10 find evidence - and, you know, about the risk of 11 taleum powder use and these risk factors. And so 12 that - so the issue that I - prior to the 13 statement, states that - these other risk 14 factors, which we know are risk factors for 15 ovarian cancer. 16 Q. Is this your statement that you made 17 here? 18 A. Yeah. Let me just explain what I did 19 here. 20 Q. That was a simple question. 21 A. Yeah. It is my statement. 22 Q. Have I read your statement? 23 A. Yes. But it is about the fact that we 24 don't have, you know, family history, ethnicity, 25 obesity and reproductive factors associated, but 26 that? 27 A. I did. Yeah. 28 Q. My question just is: Did you write 29 these associations, as it relates to tale use, we 20 don't have data on how these - to be considered 3 a confounder, they have to be associated with 4 tale use. We don't have data on that. 5 Q. My question just is: Did you write 4 that? 4 A. Yeah. He has written a textbook on 20 epidemiology. 21 Q. He is a well-respected epidemiologist; 22 is that right? 23 A. Yeah. He's well respected. 4 Q. He has written a textbook on 24 epidemiology that's widely recognized as one of 17 the best; is that right? 18 MS. PARFITT: Objection. 29 A. It is nice. I mean, I have a copy of 20 it. 20 Q. Ve looked at your report and your 21 reliance list. In terms of your reliance list, 22 you do not cite to a paper by Ken Rothman and 23 others published in 2000 entitled "Interpretation of 25 Doctor - 26 Doctor - 27 Q. Vesa. Where Rothman discusses 28 A. Yeah. It is my statement. 29 Doctor - 20 A. Yeah. It is my statement. 21 Do you see Exhibit 28 in front of you? 22 Descor - 23 A. Yes. But it is about the risk of 24 A. Yes. 25 Dovor - 26 Doctor - 27 A. Yes. 28 Doctor - 29 C. Exhibit 28 in front of you? 29 Exhibit 28 in front of you? 20 Exhibit 28 is an article prepared by Kenneth Rothman entitled "Interp				
5 Q. Is that the statement that you make? 6 A. Yes. 7 Q. There's no citation for that statement; 8 is that right? 9 A. Yes. But partly because I couldn't 10 find evidence – and, you know, about the risk of 11 talcum powder use and these risk factors. And so 11 talcum powder use and these risk factors. And so 11 talcum powder use and these risk factors. And so 11 talcum powder use and these risk factors. And so 12 that – so the issue that I – prior to the 13 statement, states that – these other risk 14 factors, which we know are risk factors for 15 ovarian cancer. 16 Q. Is this your statement that you made 17 here? 18 A. Yeah. Let me just explain what I did 19 here. 19 Q. That was a simple question. 21 A. Yeah. It is my statement? 22 Q. Have I read your statement? 23 A. Yes. But it is about the fact that we 24 don't have, you know, family history, ethnicity, 25 obesity and reproductive factors associated with 26 talc. use. We don't have data on that. 27 A. I did. Yeah. 28 Q. All right. Now, do you know who Ken 29 Rothman is? 20 Q. He is a well-respected epidemiologist; 20 A. Yeah. He has written a textbook on 21 epidemiology. 22 Q. He is a well-respected epidemiologist; 23 is that right? 24 A. Yeah. He's well respected. 25 Q. He has written a textbook on 26 epidemiology that widely recognized as one of the best; is that right? 26 A. Yeah. In terms of your reliance list. In terms of your reliance list. In terms of your reliance list, unterpretation 27 title in the fact that we have a copy of it. 28 M. Yeah of the very complete the propert and your reliance list. In terms of your reliance list, unterpretation of Epidemiology. 29 A. Yeah of the very complete the propert in front of you, and	3	-		
6 A Yes. 7 Q. There's no citation for that statement; 8 is that right? 9 A. Yes. But partly because I couldn't 10 find evidence - and, you know, about the risk of 11 talcum powder use and these risk factors. And so 12 that - so the issue that I - prior to the 13 statement, states that - these other risk 14 factors, which we know are risk factors for 15 ovarian cancer. 16 Q. Is this your statement that you made 17 here? 18 A. Yeah. Let me just explain what I did 19 here. 20 Q. That was a simple question. 21 A. Yeah. Let me just explain what I did 22 Q. Have I read your statement. 23 A. Yes. But it is about the fact that we 24 don't have, you know, family history, ethnicity, 25 obesity and reproductive factors associated, but 26 that? 27 A. I did. Yeah. 28 Q. All right. Now, do you know who Ken 29 Rothman is? 29 Q. He is a well-respected epidemiologist; 20 Is is that right? 21 A. Yeah. He has written a textbook on 22 epidemiology that's widely recognized as one of the best; is that right? 29 A. Yeah les well respected. 20 Q. I right on the last page. 30 MR. ZELLERS: Tm going to mark that paper as Exhibit 28 in Oxancer "Interpretation of Epidemiologic Studies on 31 Tale and Ovarian Cancer" marked 32 khibit 28. 33 MS. PARFITT: Thank you. 34 MS. PARFITT: Thank you. 35 MR. ZELLERS: 36 MR. ZELLERS: 36 MR. ZELLERS: 37 Q. Do you see Exhibit 28 in front of you? 38 A. Yes. 39 Q. Exhibit 28 is an article prepared by 30 Kenneth Rothman entitled "Interpretation of Epidemiologic Studies on 31 Epidemiologic Studies on 32 A. Yes. 34 A. Yes. 35 U. Do you see Exhibit 28 in front of you? 36 A. Yes. 37 D. Do you see Exhibit 28 in front of you? 38 A. Yes. 39 Q. Exhibit 28 is an article prepared by 39 Kenneth Rothman entitled "Interpretation of Epidemiologic Studies on 31 Epidemiologic Studies on 32 Exhibit 28 in front of you? 34 A. Yes. 35 U. Do you see Exhibit 28 in front of you? 35 Exhibit 28 is an article prepared by 36 Kenneth Rothman entitled "Interpretation of Epidemiologic Studies of Tale and Ovarian 39 A. Yes. But it is abou	4			
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24 others published in 2000 entitled "Interpretation 24 Q. Doctor	22			
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25 of Epidemiologic Studies in Talc and Ovarian 25 MS. PARFITT: Let him finish, please.				

	Page 246		Page 248
1	MR. ZELLERS: Okay.	1	factors, family history, obesity and reproductive
2	A. I may have failed to cite that article.	2	history," what else is different? Show me one
3	You know, it's okay. I mean, it's not okay, but	3	word that is different
4	I'm just saying I may have failed to cite that	4	A. Yeah.
5	article.	5	Q between what you've written here and
6	Q. Do you agree that the entire first part	6	what is written by Rothman in his paper.
7	of Rothman on confounding that you have cited	7	A. Yeah. It isn't, and I should have
8	word for word in your report, and you can start	8	cited it.
9	with "although there have been some strong risk	9	Q. All right. The paper by Rothman and
10	factors for ovarian cancer, for any of them to be	10	others well, strike that.
11	confounding."	11	A. And where was this published, just I
12	A. Yeah.	12	mean, it doesn't have a citation in it.
13	Q. If you read the rest, all the way	13	Q. If you're going to copy it word for
14	through the next couple of sentences, down to	14	word
15	"positive association," it's	15	A. I did not.
16	A. Yeah.	16	MS. PARFITT: Excuse me. Object to the
17	Q word for word; right?	17	question. Don't be argumentive, Counsel. He
18	A. Yeah. I wouldn't say I copy and	18	said he didn't cut and paste it. He said he
19	pasted. I would say that I have not referenced	19	failed to cite it. That's his testimony.
20	it.	20	A. You can, you know, go forward and say
21	Q. You copied and pasted it.	21	that.
22	A. No. I did not. I read it, and I wrote	22	Q. The question is: You don't know let
23	it. And I did not reference it.	23	me withdraw that. You're looking at something.
24	Q. You didn't write it. It's exactly word	24	A. Yeah. Go ahead and ask the question.
25	for word from the Rothman paper	25	Q. You thought that this was a reliable
	Page 247		Page 249
	- 5		
	A DT To be	1	
1	A. No. It isn't.	1	source; correct?
2	Q with the exception of you added, in	2	A. Yes. And I did not cite it.
2 3	Q with the exception of you added, in parentheses	2	A. Yes. And I did not cite it.Q. The Rothman paper, Exhibit 28?
2 3 4	Q with the exception of you added, in parentheses A. Yeah.	2 3 4	A. Yes. And I did not cite it.Q. The Rothman paper, Exhibit 28?A. Yes.
2 3 4 5	 Q with the exception of you added, in parentheses A. Yeah. Q "genetic risk factors, family 	2 3 4 5	A. Yes. And I did not cite it.Q. The Rothman paper, Exhibit 28?A. Yes.Q. All right. Now
2 3 4 5 6	 Q with the exception of you added, in parentheses A. Yeah. Q "genetic risk factors, family history, obesity and reproductive history"; is 	2 3 4 5 6	 A. Yes. And I did not cite it. Q. The Rothman paper, Exhibit 28? A. Yes. Q. All right. Now A. Well, it's a source. I mean, it's in
2 3 4 5 6 7	Q with the exception of you added, in parentheses A. Yeah. Q "genetic risk factors, family history, obesity and reproductive history"; is that right?	2 3 4 5 6 7	 A. Yes. And I did not cite it. Q. The Rothman paper, Exhibit 28? A. Yes. Q. All right. Now A. Well, it's a source. I mean, it's in with other source that I rely on.
2 3 4 5 6 7 8	Q with the exception of you added, in parentheses A. Yeah. Q "genetic risk factors, family history, obesity and reproductive history"; is that right? A. Yeah. And I didn't cite it, but so	2 3 4 5 6 7 8	 A. Yes. And I did not cite it. Q. The Rothman paper, Exhibit 28? A. Yes. Q. All right. Now A. Well, it's a source. I mean, it's in with other source that I rely on. Q. At least in these couple of
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"can readily."

MR. ZELLERS: I'm sorry.

Sonal Singh, M.D., M.P.H.

Page 250 Page 252 MS. PARFITT: No worries. No worries. 1 expert, to be fair and to cite information, 1 2 2 positions on -- that both support and refute your A. Which line are you in there? 3 3 position and plaintiffs' position; correct? Q. Sure. Look at "recall bias." Does the 4 A. Well, it's not about their position, 4 third sentence state, "Recall bias can readily 5 5 support or refute the causal hypothesis. introduce enough bias to produce the modestly 6 sized overall effect, relative risk equal 1.3, 6 And I'm agreeing that I was remiss in not 7 7 citing this. that emerges from these studies"? A. That's -- yeah, that's his 8 O. You also did not cite the next sentence 8 9 9 of Rothman -interpretation. 10 10 Q. You don't disagree with that, do you? A. Yes. A. Well, I do disagree in the sense that, Q. -- which states, "Of course, it remains 11 11 you know, he's making inference on the magnitude. possible that yet unidentified risk factors for 12 12 13 ovarian cancer could be important confounders, 13 I'm not disagreeing that there's a potential for 14 and several such factors in the aggregate could 14 recall bias. But, you know, as I've discussed in 15 give risk to an overall association as weak as 15 my report and -- and, again, if you say that, 16 the one between talc and ovarian cancer." 16 then I should be writing the Rothman paper 17 You did not cite that: correct? 17 instead of my report. Right? You would want Ken 18 Rothman to testify. 18 A. Yeah. And -- but that is already expressed. The same factor is also expressed in 19 You have to, you know, take -- you know, I 19 understand what he's trying to say. He's saying 20 the first sentence. Confounding is one potential 20 21 explanation for -- so, you know, again, if I had 21 that recall bias can introduce an element that 22 placed that sentence, you would say that, well, 22 would produce 1.3. 23 you're taking three lines, four. 23 O. In fact, Rothman and the other authors 24 24 So I cite that confounding is one potential of this paper conclude that the modest positive 25 association --25 explanation. Page 251 Page 253 1 Q. You don't disagree with that statement. 1 A. Yeah. 2 2 A. Yeah. Yeah. Because that's one, you Q. -- seen in epidemiological studies 3 know, it's stated that, you know, one potential 3 could be explained by recall bias or an 4 explanation. 4 unidentified confounding bias; correct? 5 5 Q. All right. Look at, if you will, on A. Yes. 6 Page 1 of the Rothman paper, the middle 6 Q. You did not note in your report 7 paragraph. Rothman states, "Most of the 7 Rothman's conclusion -- and if you turn to 8 8 Page 8, his conclusion -- "More important, there published studies are interview-based, 9 case-control studies subject to recall bias which 9 is also positive evidence against a causal 10 10 can readily give rise to associations of this association. The inverse dose-response trend for magnitude." 11 both duration of use and frequency of use, a 11 12 Did I read that correctly? 12 pattern that could not be explained by a causal 13 A. Yes. 13 relation. Based on these considerations, we 14 Q. Go to Page 4, third paragraph of the 14 suggest that the evidence to date does not Rothman paper, Exhibit 28. I'm looking at the indicate that talc can be 'reasonably anticipated 15 15 section under "recall bias," and the third 16 16 to be a human carcinogen." 17 sentence, "Recall bias can easily introduce 17 A. Yes. And this report was prepared on 18 enough bias to produce the modestly sized overall 18 November 8, 2000. That's 20 years ago. And we 19 effect, relative risk equals 1.3, that emerges 19 have many other studies subsequent to that 20 from these studies." 20 talking about dose-response, several other 21 MS. PARFITT: The only correction --21 understandings about biological mechanisms. So if I wanted -- if you want me to just 22 O. Is that what Rothman wrote? 22 23 23 cite to the Rothman paper or -- there are 115, MS. PARFITT: I'm sorry. It does say

64 (Pages 250 to 253)

you know, papers. I mean, there are other --

others will have opined that talc doesn't cause

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Page 254 Page 256 1 ovarian cancer. 1 cigarette smoking and BMI. 2 2 Q. That it did control for that? Q. What methodology did you use to rule 3 out the effect of an unidentified confounding 3 A. Yeah. 4 bias or multiple unidentified confounding biases? 4 Q. All right. Show me where, in Gertig 5 A. Yeah. So I mean, as the meta-analyses 2000, that they state that they did control for have shown, there are no differences between --BMI and for cigarette smoking. 6 6 A. "For age-adjusted analysis, we 7 most of the studies show no differences between 7 8 8 categorized values as oral contraceptive use, adjusted and unadjusted estimates, suggesting 9 9 that the potential for confounding is minimal. tubal ligation, post-menopausal, cigarette 10 There is no way to rule out unmeasured 10 smoking and BMI." 11 confounding. And that's always a possibility. 11 Q. What page? A. That's two -- whatever that page is, 12 It doesn't mean that it exists. 12 250. Yeah. That's my understanding. 13 Q. As we discussed earlier, you did review 13 14 the Gertig 2000 paper and cite it in your report; 14 If you look at Table 1, they do have, you 15 is that right? 15 know, cigarette smoking and whatnot. That's my 16 A. Yes. 16 understanding. 17 Q. On Page 48 of your report, you note 17 Q. Ter Riet 2013, you cite that in your that Gertig 2000 found a statistically 18 report; is that right? 18 19 significant increased risk for ever talc use for 19 A. It is. 20 serous invasive cancers; correct? 20 Q. Terry 2013 did not adjust for a hormone 21 A. Let me just come to that section. 21 replacement therapy usage; correct? 22 22 MS. PARFITT: Here is Ter Riet. Yes. 23 Q. Gertig did not control for BMI or for 23 A. Just let me go back to my report. This 24 cigarette smoking, did it? 24 is the Ter Riet meta-analysis? 25 A. And I'm writing age, duration of 25 Q. Yes. Ter Riet 2013, meta-analysis. Page 255 Page 257 1 1 contraceptive use, BMI, smoking status. A. Okay. 2 Can I look at the study? Sorry. 2 Q. The question is: Did Ter Riet 2013 3 Q. You're not wasting my time, are you? adjust for hormone replacement therapy usage? 3 A. No. No. Because my writeup says that. 4 4 A. Ter Riet. 5 I may be incorrect. And I just want to make sure 5 MS. PARFITT: Here is a copy. 6 that my writeup is -- you know, if we need to 6 A. Mine doesn't say that. Usually, 7 correct it, I need to correct it. I'm sorry. 7 Table 1 should answer that question. 8 8 MR. TISI: Did you mark it? HRT, right? I don't have that data, and I 9 MR. ZELLERS: No. 9 haven't included it in my report. Q. If hormone replacement therapy is a THE WITNESS: I'm not wasting it, I'm 10 10 saying that because writeup -- I say that it 11 11 risk factor for ovarian cancer, and assuming that 12 does. 12 Ter Riet did not account for that, that is a 13 MS. PARFITT: Just so you know, mine is 13 potential confounding factor; correct? 14 a marked-up copy of it. 14 A. Again, I have a slight difference in MR. ZELLERS: I'm not going to mark it. your and my definition of confounding, that you 15 15 would have to obviously know if there is an 16 I'm not going to look at it. I just want the 16 17 doctor to answer the question. association with talc exposure for it to be 17 18 MS. PARFITT: Sure. Here's a copy of 18 considered a confounder in that specific study. 19 19 Q. All right. You cannot say whether the Gertig. 20 BY MR. ZELLERS: 20 odds ratio of Ter Riet 2013 in that study would 21 Q. And my question is very simply -have been lower if the authors had adjusted for 21 22 A. Age and smoking. 22 hormone replacement therapy usage; correct? 23 Q. -- Gertig -- yes -- did not -- well, MS. PARFITT: Objection. 23 24 BMI --24 A. Or higher. I mean, we cannot say one 25 A. Yeah. It says it conducted for 25 way or the other.

1	Page 258		Page 260
	Q. Recall bias, it's a concern in every	1	talc exposure as part of larger questionnaires on
2	retrospective study; is that right?	2	other risk factors, minimizing the possibility of
3	A. Yeah, it is a potential concern in	3	recall bias."
4	design of studies where, you know, you're asking	4	Did you write that?
5	about past exposure.	5	A. Yes.
6	Q. Recall bias can distort a scientific	6	Q. How does asking about other risk
7	evaluation of whether an exposure is actually	7	factors minimize recall bias as to a particular
8	related to a disease; correct?	8	risk factor?
9	A. Yes.	9	A. Yeah. Because, you know, you're not
10	Q. For example, recall bias could distort	10	stimulating them to answer you know, if you're
11	results if women with ovarian cancer were more	11	asking them ten questions about, say so it's
12	likely to remember their exposure to talc than	12	like, well, were you you know, were you
13	women without ovarian cancer; correct?	13	active, were you using oral contraceptives, were
14	A. Yes. I mean, but the extent here is	14	you so if you are let me finish. Let me
15	quite minimal, because we don't see it with a	15	finish my explanation.
16	you know, for daily use, you know, the likely	16	You're introducing the question of talc use
17	magnitude is small. We've talked about that.	17	within ten different questionnaires, then you
18	You know, if recall bias was operational, we	18	minimize the possibility of recall bias for that
19	would see it with nongenital talc use. They	19	particular product versus you're asking talc
20	would be reporting that. And we would be seeing	20	alone.
21	it with other types of, you know, cancer beyond,	21	Q. On what literature are you relying to
22	you know, ovarian.	22	say that asking about other risk factors
23	So, yes, recall bias is a potential, but the	23	minimizes recall bias as to another risk factor?
24	likely magnitude is small.	24	A. I mean, that's just my general
25	Q. On Page 54, Paragraph 6 of your	25	understanding of epidemiology. And maybe, you
	Page 259		Page 261
1	report do you have Page 54, Paragraph 6?	1	know yeah, it's not I don't know if it's
2	A. Yeah. Just to clarify on the question,	2	specific to talc usage. Just a general
3	I disagree with Rothman. So just because it's in	3	
4			understanding of epidemiology, about, you know
_	Rothman's study, doesn't mean that it's, you know	4	understanding of epidemiology, about, you know yeah, recall bias.
5	Rothman's study, doesn't mean that it's, you know	4 5	
	Rothman's study, doesn't mean that it's, you know Q. I have a new question. Are you ready?		yeah, recall bias.
5		5	yeah, recall bias. Q. Are you done?
5 6	Q. I have a new question. Are you ready?	5 6	yeah, recall bias. Q. Are you done? A. Yeah.
5 6 7 8 9	Q. I have a new question. Are you ready? A. No. I mean, I have to finish my last question. Q. I didn't ask you a question.	5 6 7 8 9	yeah, recall bias. Q. Are you done? A. Yeah. Q. All right. Let's look at the effects of recall bias in a study on talcum powder use in ovarian cancer.
5 6 7 8 9	Q. I have a new question. Are you ready? A. No. I mean, I have to finish my last question. Q. I didn't ask you a question. A. Okay. Because we are still on the	5 6 7 8 9	yeah, recall bias. Q. Are you done? A. Yeah. Q. All right. Let's look at the effects of recall bias in a study on talcum powder use in ovarian cancer. Are you familiar with the Schildkraut 2016
5 6 7 8 9 10 11	Q. I have a new question. Are you ready? A. No. I mean, I have to finish my last question. Q. I didn't ask you a question. A. Okay. Because we are still on the topic of recall bias.	5 6 7 8 9 10	yeah, recall bias. Q. Are you done? A. Yeah. Q. All right. Let's look at the effects of recall bias in a study on talcum powder use in ovarian cancer. Are you familiar with the Schildkraut 2016 study?
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5 6 7 8 9 10 11 12 13 14	Q. I have a new question. Are you ready? A. No. I mean, I have to finish my last question. Q. I didn't ask you a question. A. Okay. Because we are still on the topic of recall bias. Q. I asked the question. A. Okay. Q. Recall bias could distort results of	5 6 7 8 9 10 11 12 13	yeah, recall bias. Q. Are you done? A. Yeah. Q. All right. Let's look at the effects of recall bias in a study on talcum powder use in ovarian cancer. Are you familiar with the Schildkraut 2016 study? A. Yes. Q. That was one of the studies that you relied on in forming your opinions; is that
5 6 7 8 9 10 11 12 13 14 15	Q. I have a new question. Are you ready? A. No. I mean, I have to finish my last question. Q. I didn't ask you a question. A. Okay. Because we are still on the topic of recall bias. Q. I asked the question. A. Okay. Q. Recall bias could distort results of women with ovarian cancer were more likely to	5 6 7 8 9 10 11 12 13 14 15	yeah, recall bias. Q. Are you done? A. Yeah. Q. All right. Let's look at the effects of recall bias in a study on talcum powder use in ovarian cancer. Are you familiar with the Schildkraut 2016 study? A. Yes. Q. That was one of the studies that you relied on in forming your opinions; is that right?
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	Page 262		Page 264
1	Between Body Powder Use and Ovarian Cancer; The	1	
2	African American Cancer Epidemiology Study";	2	that they used talc on their genitals was 34 percent; is that right?
3	correct?	3	A. Where is that? Yeah.
4	A. Yes.	4	Q. The percentage of cases, meaning women
5	Q. The study looked at, among other	5	with ovarian cancer, that said that they used
6	things, what impact, if any, lawsuit filings in	6	talc on their genitals was 36.5 percent; is that
7	2014 had on whether women recalled using talc in	7	right?
8	the past; correct?	8	A. I'm just looking at this. Give me a
9	A. Yeah. It examined the issue of	9	second.
10	stimulated reporting. And I note it in my	10	36 interview data after 2004?
11	report. I don't I don't discount that in my	11	Q. No. My question here is: For women
12	discussion of the Schildkraut study.	12	who were interviewed before 2014
13	Q. We'll call it Schildkraut. Can we do	13	A. Mm-hmm.
14	that?	14	Q the control, so women without
15	A. Whatever. I don't know.	15	ovarian cancer, they stated they used talc on
16	Q. The authors in that study, Exhibit 29,	16	their genitals, 34 percent; is that right?
17	thought that the publicity from lawsuits might	17	A. Yes.
18	influence the participants' recall of prior body	18	Q. For that same time period, women
19	powder use; is that right?	19	interviewed before 2014
20	MS. PARFITT: Objection.	20	A. Mm-hmm.
21	A. Yes. And I noted on Page 45 of my	21	Q with ovarian cancer that said that
22	report that although there was some evidence that	22	they used talc on their genitals was
23	there was more reporting after class action	23	36.5 percent.
24	lawsuits in 2014, recall bias alone is	24	A. Yes.
25	insufficient because there is a statistically	25	Q. Is that right?
	Page 263		Page 265
1	significant risk both before and after 2014. But	1	So roughly the same reporting of genital
2	the authors did, you know, think it was an	2	talc use between women with and without ovarian
3	important thing to look at.	3	cancer occurred before the lawsuits were filed in
4	Q. The authors looked at this and tried to	4	2014.
5	study this; is that right?	5	MS. PARFITT: Objection.
6	A. Yes.	6	Q. Correct?
7	Q. All right. Go to Page 4, Table 2 of	7	A. I don't know the timing of lawsuits,
8	the Schildkraut paper. Tell me when you have it.	8	but yes, 2014.
9	A. I do.	9 10	Q. So then let's look at what happened
10	Q. This is a table, Adjusted Odds Ratios	11	after the lawsuits were filed. After 2014, what percentage of women without
11 12	for the Associations Between Mode, Frequency and Duration of Body Powder Use and Ovarian Cancer;	12	ovarian cancer said that they used talc on their
13	is that right?	13	genitals?
14	A. Yes.	14	
15	Q. The second column shows the number of	15	A. The case are you talking about cases or controls?
16	cases. That's women with ovarian cancer;	16	Q. Yeah. I'm talking about controls.
17	correct?	17	A. 34.4, 34.4.
18	A. Yes.	18	Q. So based on this data, the lawsuits had
19	Q. The third column shows the controls.	19	essentially no effect on how many of the women
20	That's the women who do not have ovarian cancer;	20	without ovarian cancer, the controls, remembered
		21	or recalled using baby powder; correct?
	correct?		O 21 11 11 11 11 11 11 11 11 11 11 11 11
21 22	A. Yes.	22	A. Yes.
21	A. Yes.		
21 22	A. Yes.Q. Looking at the data, before 2014,	22	A. Yes. Q. It was 34 percent before 2014 and 34.4 percent after; is that right?
21 22 23	A. Yes.	22 23	Q. It was 34 percent before 2014 and

			
	Page 266		Page 268
1	Q. For women with ovarian cancer, before	1	action lawsuits in 2014, recall bias alone is
2	the lawsuits were filed, 36.5 percent of them	2	insufficient to explain these findings, because
3	said they recalled using baby powder; correct?	3	there was a statistically significant increased
4	A. Yes.	4	risk both before and after 2014."
5	Q. But after the lawsuits were filed, the	5	Is that what you state?
6	percent of women with ovarian cancer who said	6	A. Yeah.
7	they used baby powder went up to 51.5 percent; is	7	Q. Let's look at what the study actually
8	that right?	8	shows. So go to
9	A. Yes.	9	A. Yeah. I correct it. Should be there
10	Q. So after the lawsuits were filed, the	10	was an excess risk, because there was no
11	percent of women with ovarian cancer who said	11	statistically significant.
12 13	they used baby powder jumped by over 40 percent; is that right?	12 13	Q. Your report is in error; is that right?
14	MS. PARFITT: Objection. Form.	13	MS. PARFITT: Objection. A. Well, it should be corrected to an
15	A. By 40 percent? Where is 40?	15	A. Well, it should be corrected to an excess risk.
16	Q. A difference between the 36	16	Q. It is not, and there is not a
17	A. 10 percent. It's 51 and 34. Right?	17	statistically significant risk; is that right?
18	Q. It jumped I don't have a calculator.	18	MS. PARFITT: Objection. Form.
19	A. You're subtracting 51 to 36 or 51 to	19	A. Yeah. The test for effect modification
20	34?	20	by year of interview was technique, but the
21	Q. Well, there was	21	particular estimate for above for, you know,
22	A. Sorry.	22	for before 2014 was not significant.
23	Q. That's okay. It's late.	23	Q. Exactly. So pre-2014, there was an
24	There was a significant increase	24	odds ratio of 1.19 with a confidence interval
25	A. There was an increase.	25	ranging from .87 to 1.63; is that right?
1			
	Page 267		Page 269
1	Q from 36.5 percent before the	1	Page 269 A. Yeah. Yeah.
1 2		1 2	
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q from 36.5 percent before the lawsuits were filed to 51.5 percent after; is that right? A. Yes. Q. So, suddenly, women who had ovarian cancer started reporting a higher incidence of talc use than women had reported before 2014; is that right? MS. PARFITT: Objection. Form. A. Yes. There was there was incidence you know, evidence of stimulated reporting. But that is just one element of recall bias. That's not completely what is being addressed in my statement on recall bias. This is evidence about stimulated reporting, which is one one spectrum of recall bias. Q. It's at least an example of the potential effect of recall bias; correct? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. Yeah. Yeah. Q. That is not statistically significant; is that right? A. Yes. Q. In the absence of statistical significance, that can be indicative of no risk existing; correct? MS. PARFITT: Objection. Form. A. Yeah. But, you know, I'm opining on the study as a whole. That's just one element of stimulated reporting in that study, you know. Yeah. So there's an excess risk, which is in the same direction, but not statistically significant. Q. If the study had ended before 2014, it would have found no statistically significant relationship between talcum powder and ovarian cancer; is that right? A. I'm not seeing the study. I have to interpret the whole study; right? Q. Well, based upon this data that we just
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q from 36.5 percent before the lawsuits were filed to 51.5 percent after; is that right? A. Yes. Q. So, suddenly, women who had ovarian cancer started reporting a higher incidence of talc use than women had reported before 2014; is that right? MS. PARFITT: Objection. Form. A. Yes. There was there was incidence you know, evidence of stimulated reporting. But that is just one element of recall bias. That's not completely what is being addressed in my statement on recall bias. This is evidence about stimulated reporting, which is one one spectrum of recall bias. Q. It's at least an example of the potential effect of recall bias; correct? A. Yes. Q. All right. Go to Page 45 of your report, the last sentence.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yeah. Yeah. Q. That is not statistically significant; is that right? A. Yes. Q. In the absence of statistical significance, that can be indicative of no risk existing; correct? MS. PARFITT: Objection. Form. A. Yeah. But, you know, I'm opining on the study as a whole. That's just one element of stimulated reporting in that study, you know. Yeah. So there's an excess risk, which is in the same direction, but not statistically significant. Q. If the study had ended before 2014, it would have found no statistically significant relationship between talcum powder and ovarian cancer; is that right? A. I'm not seeing the study. I have to interpret the whole study; right?
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Page 270 Page 272 relationship between talcum powder use and 1 1 reports for that. 2 ovarian cancer; correct? 2 Q. You have no personal expertise with 3 MS. PARFITT: Objection. Misstates the 3 that: correct? 4 4 A. No. data. 5 A. Yeah. There was an excess risk which 5 Q. Did you consider any testing that found 6 6 was not statistically significant. But, you no asbestos? 7 know, we are picking and choosing analysis by 7 A. Yeah. I did. I think I'm citing the 8 2004. Again, we talked about we are choosing by 8 FDA report in my assessment that there are 9 duration. You can pick any one of these analyses studies that suggest the -- I don't know if it's 10 to cite it. You have to look at the cumulative 10 an FDA report. It's an FDA study that talks 11 evidence and the cumulative evidence from 11 about it. 12 12 meta-analyses. Q. If your assumption about contamination 13 Q. How did you account for this recall 13 of talcum powder products with asbestos were not 14 bias in weighing the Schildkraut study? 14 true, would your opinions in this case change? 15 MS. PARFITT: Object to the form. 15 MS. PARFITT: Objection. Form. 16 A. So, again, I did not weigh one 16 A. Well, again, you know, this is a weight 17 individual study. My weight of evidence is based 17 of evidence that, does it, you know, contain on the meta-analysis and the cumulative evidence talcum powder -- I mean -- does talcum powder 18 18 19 from meta-analysis, the biological studies, 19 product contain asbestos? Or, you know, these 20 animal studies, human studies. 20 other metals we've talked about. 21 So, you know, I point out the limitations of 21 But my opinion was, in fact, arrived at 22 the individual studies, as do the authors of the 22 before even I was aware of both of the deposition 23 meta-analyses. 23 testimony, as well as the results of testing by 24 Q. Are your opinions in this matter 24 Dr. Luongo that my causal opinion was that they 25 dependent on talcum powder containing asbestos? 25 caused, you know, ovarian cancer. Page 271 Page 273 1 A. No. I arrived at my causal opinion 1 MR. ZELLERS: Move to strike as 2 2 independent of, you know, presence of asbestos nonresponsive. I'm going to ask the question 3 3 or, you know, or my understanding of the again. 4 4 constituents. But I asked to better understand THE WITNESS: Sure. 5 5 what are the constituents of, you know, talcum BY MR. ZELLERS: 6 powder products. 6 Q. If your assumption about contamination 7 7 And I was, you know, some of the documents of talcum powder products with asbestos were not 8 8 and some of the literature even suggests and true, would your opinions in this case change? 9 shows that, and some of the testing and some of 9 A. No. 10 10 the deposition testimony that I have been privy Q. In support of your opinion that talcum 11 11 powder products contain asbestos, you cite to to, suggests the presence of asbestos in talcum 12 powder product. 12 exhibits from the depositions of John Hopkins and 13 Q. Do you believe that talcum powder that 13 Julie Pier; is that right? 14 does not contain asbestos causes ovarian cancer? 14 A. Yes. 15 15 Q. Are you aware that those exhibits were A. Yes. 16 Q. Is it fair to say that you have not 16 created by plaintiff attorneys? 17 made any independent determination as to whether 17 MS. PARFITT: Objection. Misstates the 18 or not the talcum powder products manufactured by 18 19 J&J Consumer Products are contaminated with 19 A. Yeah. I mean, I asked them whatever 20 20 that -- you know, these are -- as I understand 21 A. Yes. I have not made a determination. 21 them, they are, you know -- they are created as a part of the testimony of these deponents on 22 I've looked at the literature. I have looked at 22 23 23 behalf of, you know, the defendants. That's my the testimony of the experts that was provided, 24 and I've looked at testimony -- sorry -- the 24 understanding. 25 report of Dr. Luongo and I have relied on their 25 Q. Were you told that the exhibits

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Page 276
                                           Page 274
      Exhibit 28 to the deposition of John Hopkins and
 1
                                                            1
                                                                 than from communicating with plaintiffs' counsel?
 2
      Exhibit 47 to the deposition of Julie Pier were
                                                            2
                                                                    A. I'm not sure what -- so --
                                                            3
 3
      exhibits that were created by plaintiffs'
                                                                       MS. PARFITT: I'm going to object to
 4
      attornevs?
                                                            4
                                                                 the form.
 5
                                                            5
             MS. PARFITT: Objection. Completely
                                                                    O. Sure. The source of data?
 6
      misstates the evidence in this case.
                                                            6
                                                                    A. Like source of --
                                                            7
 7

 A. You know. I asked for constituents. I

                                                                    Q. I'm asking you if you know where the
 8
      don't know what -- who created what. So I mean,
                                                            8
                                                                 data in those exhibits came from.
                                                            9
 9
      I'm not going to be able to answer that type of
                                                                    A. So I'll try to answer to the best of my
10
      question, who created this.
                                                          10
                                                                 ability.
11
         I was asked for, you know, what are the
                                                          11
                                                                    My understanding is that the data on J&J and
                                                          12
12
      constituents, that can I learn more about this?
                                                                 Imerys were from mines tested over the years,
13
          Q. Outside of your work in litigation, do
                                                          13
                                                                 ranging, you know, from several decades. And
14
      you normally rely on documents created by
                                                          14
                                                                 that contained or -- you know, were contaminated
15
      advocates in order to evaluate epidemiological
                                                          15
                                                                 with asbestos, various fibers that were created.
16
                                                          16
      data?
                                                                    And the second was the Luongo report was
17
             MS. PARFITT: Objection. Again,
                                                          17
                                                                 products that were purchased and that were tested
                                                                 in the laboratory. So that's where the source.
18
      misstates the evidence as to origin of the
                                                          18
19
      Hopkins and Pier Exhibits 28 and 40.
                                                          19
                                                                 I mean, I assume these other two sources.
20
             You may answer.
                                                          20
                                                                    Q. Have you made any effort to investigate
21
         A. Yeah. I mean, I do. As I said
                                                          21
                                                                 the alternative explanations for the data in
22
      earlier, I rely on our published data. And as
                                                          22
                                                                 those charts, Exhibit 28 and Exhibit 47?
23
      the Health Canada approach states, that we rely
                                                          23
                                                                    A. I mean --
24
                                                          24
      on whatever evidence becomes available, and, A,
                                                                       MS. PARFITT: Objection.
25
      is relevant to the particular testimony.
                                                          25
                                                                    A. So, for example, I think that those
                                                                                                     Page 277
                                           Page 275
 1
         And, importantly, just as my causal opinion
                                                            1
                                                                 data are, as I said earlier, my causal opinion
 2
      was arrived at independent of the constitution of
                                                            2
                                                                 is -- is, you know, this is only a -- my causal
                                                                 opinion is only -- you know, this is only a small
 3
      asbestos in talc, Health Canada also is unaware
                                                            3
                                                                 link in my causal opinion between talc and
 4
      of the presence of -- or at least, you know, they
                                                            4
 5
                                                            5
                                                                 ovarian cancer, and it's not predicated on the
      haven't assessed the presence of asbestos in
 6
      talc, and they are, you know, both congruent.
                                                            6
                                                                 presence of asbestos.
 7
         Q. Your testimony is that outside of your
                                                            7
                                                                    I don't have the expertise to determine
 8
                                                            8
      work in litigation, that you normally do rely on
                                                                 whether asbestos is present.
 9
      data and documents created by plaintiffs'
                                                            9
                                                                    Q. I'm trying to make it a simple
10
      counsel?
                                                          10
                                                                 question. I'm just trying to find out what you
11
            MS. PARFITT: Objection. Form. Asked
                                                                 did and what you did not do.
                                                          11
12
      and answered. And misstates the evidence.
                                                          12
                                                                    Did you make any effort to investigate the
13
         A. So I, you know, rely on evidence that's
                                                          13
                                                                 alternative explanations for the data in the
14
      available in terms of epidemiologic evidence.
                                                          14
                                                                 charts which are marked as Exhibit 28 and
15
      And my testimony on asbestos was based on testing
                                                          15
                                                                 Exhibit 47?
16
      and based on -- testing by -- based on some of,
                                                          16
                                                                    A. So --
17
      you know, there are studies which suggest the
                                                          17
                                                                       MS. PARFITT: Objection.
18
      presence of asbestos.
                                                          18
                                                                    A. What is 28, 47?
19
         Q. Do you know where the data in
                                                          19
                                                                       MS. PARFITT: Yeah. Let's get them.
20
      Exhibit 28 to Hopkins and Exhibit 47 to Pier came
                                                          20
                                                                 Do you have a copy of them here to show --
21
      from?
                                                          21
                                                                       MR. ZELLERS: No.
22
         A. You know, I was seeing these were in
                                                          22
                                                                       MS. PARFITT: You aren't going to show
2.3
      various mines conducted. That's my
                                                          23
                                                                 it to him?
24
      understanding.
                                                          24
                                                                       MR. ZELLERS: He cites to these in his
25
         Q. Do you have an understanding, other
                                                          25
                                                                 report.
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Page 278 Page 280 1 MS. PARFITT: Then let's get them. 1 knowledge on these issues; correct? 2 2 A. Yeah. I mean, for my purpose, you We'll get them. Give him a moment. 3 3 MR. ZELLERS: We don't need to get them know, it was more an understanding of the 4 4 constituents, whether that would provide, you to answer this question. 5 MS. PARFITT: Do you need them, 5 know, proof against biologic plausibility, proof 6 6 for biologic plausibility. Dr. Singh? THE WITNESS: Yes. 7 7 So, for example, you say, did I undertake 8 MS. PARFITT: Do you want to take a 8 attempts to understand the constituents? Yes. I 9 quick break? 9 mean, I was looking for, well, are there some 10 10 antioxidants that, if you had some antioxidants MR. ZELLERS: And I object. And this 11 should not be time that gets charged me. 11 in that product, and I'm not aware of, or anti, 12 BY MR. ZELLERS: 12 you know, carcinogens and maybe these scientists 13 Q. My question simply is: Did he attempt 13 will be able to provide that. 14 to investigate any alternative causes. He can 14 Q. Did you ask counsel for plaintiffs for 15 either say yes, he can say no, or he can say I 15 any information or testimony from either J&J 16 don't recall. 16 company folks or Imerys scientists as to what the 17 A. Yes. 17 tests actually showed with respect to asbestos? MS. PARFITT: Other than Exhibits 28 18 Q. All right. What did you do to 18 19 investigate alternative explanations? 19 and 47? 20 A. I mean, you know, I was looking at 20 A. I assume those testifying were J&J 21 the -- I was already looking at the published 21 scientists and Imerys, and they were speaking 22 literature, but beyond that, I was looking at 22 about those tests. 23 what are the alternate -- again, as I said, you 23 Q. My question is: Did you ask for any 24 know, my expertise in determining -- I'm not a 24 additional information? 25 mineralist that I can, you know, that I can 2.5 A. No. I mean, I asked -- as I said, I Page 279 Page 281 1 1 asked about the causal question and I got what I determine that. And, again, I'm not opining that 2 Dr. Luongo's report -- I mean, he will have to 2 got. We can go about it in various ways. 3 3 vouch for his report. Like did I ask again? No, I didn't. And I 4 Q. Let me ask it a different way. 4 don't want any more documents. 5 5 A. Yeah. Q. We'll try to shortcut this. 6 Q. If scientists from the J&J companies 6 Do you believe Luongo? You reviewed his 7 and Imerys scientists say that those tests don't 7 testimony; right? 8 8 actually show asbestos, it was just tremolite MS. PARFITT: Objection. Form. 9 9 reported, for example, you have no expertise to Go ahead. 10 dispute that; correct? 10 A. Yeah. It's like how do you believe, 11 MS. PARFITT: Objection. Misstates the 11 you know -- again, it's an area of expertise. He 12 evidence in this case, entirely. 12 tests, you know, these products, you know, this 13 Do you want to ask him a hypothetical? 13 is not my area of experience. At least based on 14 Q. It's a hypothetical question. 14 his testing, there is presence of asbestos in 15 MS. PARFITT: It's a hypothetical. 15 my -- and provides additional support. 16 A. Again, with my limited expertise and my 16 Q. Did you look at any of the experts for understanding of whatever I was provided and the defendants who have opined to the opposite 17 17 18 cited there, my understanding was that there was 18 statement or the opposite? 19 asbestos present in there and, you know, other 19 MS. PARFITT: I think -- objection. 20 people can have different opinions and I think 20 A. I was told that the expert defendants mineralogists, geologists will -hadn't even been -- you know, haven't submitted 21 21 Q. Those are the --22 22 reports or haven't been, you know, opined on. 23 23 That's sort of my understanding. A. Yeah. 24 Q. -- expertise or the -- those are the 24 Q. You believed and accepted the Luongo types of experts that would have substantive 25 testing for purposes of this case; is that right?

	Page 282		Page 284
1	MS. PARFITT: Objection. Misstates the	1	I'm not trying to slow you down.
2	heart of his testimony.	2	MR. TISI: And you said you think he
3	A. So, first of all, this report is 70	3	was.
4	whatever pages. Luongo is maybe a paragraph or	4	MR. ZELLERS: Yes. And it was in jest,
5	two. So, yes, I believe that was one study.	5	Counsel. We all chuckled and we all laughed.
6	For the purposes of, you know, identifying,	6	MR. TISI: As long as it was in jest,
7	you know, I identified his. I identified what	7	that's fine.
8	was shown and what was in those notes. And I	8	THE WITNESS: I took it to be in jest.
9	identified some epidemiologic I mean, some	9	I know I reviewed one, but I'm just
10	findings in the published literature.	10	trying to see if I reviewed another one. There
11	I mean, that's as much as I could know about	11	was yeah.
12	it. I mean, you had Routers' study, you know,	12	So I said, No. 30 and then 31, 32, two
13	talking about it in the media. So there's lots	13	additional reports. Sorry.
14	of different things.	14	Q. Have you ever met Luongo?
15	I didn't go and, you know, go looking into	15	A. I don't know him.
16	the Routers report. Maybe that's what I should	16	Q. Do you know his qualifications?
17	be looking at.	17	A. No.
18	Q. You did not confirm that any of the	18	Q. Had you ever heard of him before you
19	talc samples mentioned in those charts were	19	got involved in this MDL talc ovarian cancer
20	actually from talc that was used in baby powder;	20 21	litigation?
21 22	correct?	21	A. No.
23	MS. PARFITT: Objection. Misstates the	23	Q. Have you reviewed any Luongo testing where he did not find asbestos?
24	evidence that was available to him. If you want to show him the charts, you can do it.	23 24	A. These were the three reports I
25	Q. Can you answer that question?	25	reviewed. So I don't know if he has conducted
	- '	23	
	Page 283		Page 285
1	MS. PARFITT: Objection.	1	additional testing.
2	A. I did not confirm it myself.	2	 Q. Let me ask again. Have you reviewed
_			
3	Q. You realize that the vast majority of	3	any Luongo testing where he did not find
4	talc isn't even used for body powder; correct?	4	any Luongo testing where he did not find asbestos?
4 5	talc isn't even used for body powder; correct? MS. PARFITT: Objection. Misstates the	4 5	any Luongo testing where he did not find asbestos? A. I did not review any additional beyond
4 5 6	talc isn't even used for body powder; correct? MS. PARFITT: Objection. Misstates the evidence.	4 5 6	any Luongo testing where he did not find asbestos? A. I did not review any additional beyond what is cited here.
4 5 6 7	talc isn't even used for body powder; correct? MS. PARFITT: Objection. Misstates the evidence. A. I realize that yeah, I don't know	4 5 6 7	any Luongo testing where he did not find asbestos? A. I did not review any additional beyond what is cited here. Q. Have you reviewed the FDA's testing of
4 5 6 7 8	talc isn't even used for body powder; correct? MS. PARFITT: Objection. Misstates the evidence. A. I realize that yeah, I don't know what you know, there are various other uses of	4 5 6 7 8	any Luongo testing where he did not find asbestos? A. I did not review any additional beyond what is cited here. Q. Have you reviewed the FDA's testing of talcum powder products?
4 5 6 7 8 9	talc isn't even used for body powder; correct? MS. PARFITT: Objection. Misstates the evidence. A. I realize that yeah, I don't know what you know, there are various other uses of talc.	4 5 6 7 8 9	any Luongo testing where he did not find asbestos? A. I did not review any additional beyond what is cited here. Q. Have you reviewed the FDA's testing of talcum powder products? A. I have cited it. I mean, I have not
4 5 6 7 8 9	talc isn't even used for body powder; correct? MS. PARFITT: Objection. Misstates the evidence. A. I realize that yeah, I don't know what you know, there are various other uses of talc. Q. Do you also rely on well, strike	4 5 6 7 8 9	any Luongo testing where he did not find asbestos? A. I did not review any additional beyond what is cited here. Q. Have you reviewed the FDA's testing of talcum powder products? A. I have cited it. I mean, I have not reviewed the specific test, but I have, you know,
4 5 6 7 8 9 10	talc isn't even used for body powder; correct? MS. PARFITT: Objection. Misstates the evidence. A. I realize that yeah, I don't know what you know, there are various other uses of talc. Q. Do you also rely on well, strike that.	4 5 6 7 8 9 10	any Luongo testing where he did not find asbestos? A. I did not review any additional beyond what is cited here. Q. Have you reviewed the FDA's testing of talcum powder products? A. I have cited it. I mean, I have not reviewed the specific test, but I have, you know, cited what what they what they found.
4 5 6 7 8 9 10 11	talc isn't even used for body powder; correct? MS. PARFITT: Objection. Misstates the evidence. A. I realize that yeah, I don't know what you know, there are various other uses of talc. Q. Do you also rely on well, strike that. How many Luongo reports have you reviewed?	4 5 6 7 8 9 10 11	any Luongo testing where he did not find asbestos? A. I did not review any additional beyond what is cited here. Q. Have you reviewed the FDA's testing of talcum powder products? A. I have cited it. I mean, I have not reviewed the specific test, but I have, you know, cited what what they what they found. Q. Have you made any effort to quantify
4 5 6 7 8 9 10 11 12 13	talc isn't even used for body powder; correct? MS. PARFITT: Objection. Misstates the evidence. A. I realize that yeah, I don't know what you know, there are various other uses of talc. Q. Do you also rely on well, strike that. How many Luongo reports have you reviewed? A. I just have to take a look. I know	4 5 6 7 8 9 10 11 12 13	any Luongo testing where he did not find asbestos? A. I did not review any additional beyond what is cited here. Q. Have you reviewed the FDA's testing of talcum powder products? A. I have cited it. I mean, I have not reviewed the specific test, but I have, you know, cited what what they what they found. Q. Have you made any effort to quantify the amount of any alleged contaminant in the
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	1		1
	Page 286		Page 288
1	is that any amount and I think there's some	1	at meta-analysis that, you know, cause, as well
2	testimony from others to that effect as well.	2	as the IARC report that, you know, talks about
3	But I'll defer to others.	3	asbestos and fibrous talc as a carcinogen and
4	Q. Do you have an opinion on what type of	4	also cites studies that show that asbestos causes
5	asbestos is in the baby powder products?	5	ovarian cancer. But, again, I wasn't doing a
6	A. Again, you know, this whole you	6	formal causal analysis.
7	know, this sort of questions around constituents	7	Q. Do you agree that research on the
8	of the product, for me, it was more trying to	8	potential relationship between asbestos and
9	understand whether it's asbestos or any other	9	ovarian cancer has only considered a small number
10	constituents in the product, provide evidence in	10	of cases?
11	support or against.	11	MS. PARFITT: Objection. Form.
12	I can't tell you what amount would cause or,	12	A. I mean, ovarian cancer is a rare, rare
13	you know, not cause baby in baby powder will	13	disease. And, you know, it's going to be a small
14	cause ovarian cancer.	14	number of cases, regardless of etiology, what
15	Q. What types of asbestos are associated	15	they are trying to study.
16	with ovarian cancer?	16	Q. How many of the studies involve
17	A. I haven't done a causal analysis of	17	occupational exposure?
18	asbestos and ovarian cancer. I know that the	18	A. I think the predominant
19	IARC has classified asbestos as a carcinogen,	19	MS. PARFITT: Objection.
20	Grade 1, and that also stated that it caused	20	A studies have involved occupational
21	ovarian cancer, but about asbestos and fibrous	21	exposure.
22	talc, but obviously others will provide more	22	Q. How many were nonoccupational, if any?
23	more specifics.	23	A. I don't recall the numbers.
24	Q. Do you have any strike that.	24	Q. Did any of the nonoccupational asbestos
25	Do you have knowledge as to the different	25	studies reach statistical significance?
	Page 287		Page 289
1	types of asbestos?	1	MS. PARFITT: Objection. Form.
2	A. No.	2	A. Again, I would have to look at the
3	Q. What dose of asbestos is associated	3	study that you're talking about. And I just I
4	with ovarian cancer?	4	can't recall it off the top of my head.
5	A. I have not evaluated the dose of	5	Q. Can you tell how many women were
6	asbestos with ovarian cancer.	6	studied?
7	Q. What type of ovarian cancer is asbestos	7	A. No, I can't. I mean, you can't ask
8	associated with?	8	questions about these things, and tell me how
9	A. I have not as I said earlier, I have	9	many women. No. You have to show me the study
10	not evaluated the specific causal link between	10	if you want to go down that line of questioning.
11	asbestos and ovarian cancer. My causal question	11	Q. I'll show you a study.
12	was, does talcum powder products cause ovarian	12	A. Sure.
13	cancer. And whatever the constituents are, you	13	Q. Are you familiar with the Reid study
14	know, whether they provide evidence in support or	14	published May 24th of 2011?
15	against. And, as you said, there may be	15	A. Yes.
16	additional testing.	16	Q. It's one of the studies you looked at;
17	Q. Does the type of ovarian cancer vary	17	is that right?
18	based upon the type of asbestos?	18	A. Yes.
19	A. Again, I didn't evaluate that that	19	MR. ZELLERS: We'll mark that as
20	body of evidence.	20	Exhibit 30.
21	Q. Did you evaluate studies that have	21	(Article entitled "Does Exposure
22	explored the potential link between asbestos and	22	to Asbestos Cause Ovarian Cancer? A
23	ovarian cancer?	23	Systematic Literature Review and
24	A. Yeah. I mean, I didn't, again,	24	Meta-analysis" marked Exhibit 30.)
25	evaluate the causal link between that. I looked	25	MS. PARFITT: Thank you.

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1	THE WITNESS: Can you repeat the	1	Where are you pointing to?
2	question for me?	2	MR. ZELLERS: Sure. I'm looking at
3	MR. ZELLERS: Sure.	3	the
4	THE WITNESS: I'm sorry.	4	MS. PARFITT: Thank you.
5	BY MR. ZELLERS:	5	MR. ZELLERS: No. 2.
6	Q. Go to the first page, the right column.	6	MS. PARFITT: Uh-huh.
7	A. Mm-hmm.	7	MR. ZELLERS: The last full sentence.
8	Q. Reid. And this article is entitled	8	MS. PARFITT: Thank you. I appreciate
9	"Does Exposure to Asbestos Cause Ovarian Cancer?"	9	it.
10	Is that right?	10	MR. ZELLERS: On Page first page of
11	A. Yes.	11	the article.
12	Q. The authors state, on the first page,	12	MS. PARFITT: Thank you. I appreciate
13	on the right-hand side, right above the No. 1 and	13	that.
14	No. 2, "Studies that have examined this issue	14	MR. ZELLERS: Sure.
15	have been limited for two major reasons. No. 1,	15	A. Yes.
16	small number of cases"; is that right?	16	Q. Have the studies addressed confounding
17	A. Yes.	17	and independent risk factors?
18	Q. The authors state, "Much fewer women	18	A. Well, again, you know, my examination
19	than men have been exposed to asbestos,	19	of asbestos I mean, I was not trying to
20	particularly in more heavily exposed occupational	20	establish a causal link between asbestos and
21	settings where relative risks are higher."	21	ovarian cancer, you know, when in trying to look
22	You agree with that; correct?	22	at talcum powder products and ovarian cancer, you
23	A. Yes.	23	know, one of the questions was constituents.
24	Q. Then the second major limitation deals	24	And, you know, the IARC agrees that, or at
25	with difficulties of diagnosis; is that right?	25	least opines that it is, causally, is a
	Page 291		Page 293
1	A. Yes.	1	carcinogen and lists that and lists the Kamargo
2	Q. Are you aware of the difficulties that	2	study as, you know, that asbestos causes ovarian
3	have existed over time in distinguishing between	3	cancer.
4	peritoneal mesothelioma and ovarian cancer?	4	Q. Well, the Camargo 2011 study
5	A. Yes. As a general idea of you know,	5	acknowledges an inability to account for
6	because they share histologic similarities.	6	nonoccupational risk factors for ovarian cancer
7	Q. Did those difficulties affect the	7	other than age; correct?
8	reliability of the studies?	8	A. Again, if I can
9	A. Yes, but if you look at Table 2 of that	9	Q. Take a look. Sure.
10	report, you see that, despite if you look at	10	A. These statements it's getting to the
11	studies that review the ovarian pathology, you	11	end of the day, so
12	still see a statistically significant increased	12	MR. ZELLERS: Deposition Exhibit 31.
13	risk of incidence of mortality from ovarian	13	(Article entitled "Occupational
14	cancer. So, yes, overall studies, it's a higher	14	Exposure to Asbestos and Ovarian Cancer: A
15	estimate, but even if you take into account	15	Meta-analysis" marked Exhibit 31.)
16	mesothelioma diagnoses and misclassification, you	16	BY MR. ZELLERS:
17	still cannot, you know, account that we still	17	Q. Deposition Exhibit 31 is the Kamargo
18	are left with that asbestos causes, you know,	18	paper; is that right?
19	ovarian cancer.	19	A. Yes.
20	Q. The authors of the Reid paper that you	20	Q. This is another paper that you have
21	reviewed and relied on, Exhibit 30, stated, "It	21	reviewed?
22	has been particularly difficult to distinguish	22	A. Yes.
23	between peritoneal mesothelioma and ovarian	23	Q. On the first page, the overview
24	serous carcinoma"; is that right?	24	A. Yes.
25	MS. PARFITT: Counsel, I'm sorry.	25	Q it states, "Objective: A recent

	Sonar Singn,		-
	Page 294		Page 296
1	monograph working group of IARC conducted" or	1	Q. And you're not making a causal
2	strike that "concluded that there is	2	assessment or determination
3	sufficient evidence for a causal association	3	A. No.
4	between exposure to asbestos and ovarian cancer.	4	Q on asbestos; is that right?
5	We performed a meta-analysis to quantitatively	5	A. Yes.
6	evaluate this association."	6	Q. Okay. Under "discussion," Page 1215
7	Is that right?	7	A. And I'm going to take a break after
8	A. Yes.	8	that whenever you're done. I'm sorry. I need to
9	Q. If you look at Page 1216, middle	9	use the restroom.
10	column are you there?	10	Q. That's okay. That's fine. That's
11	So I'm looking at the second full paragraph	11	fine.
12	above "conclusion."	12	Do you see under "discussion," this is on
13	"A further limitation of our analysis was	13	the left-hand column, second full paragraph,
14	its inability to account for nonoccupational risk	14	where they're talking about Edelman?
15	factors for ovarian cancer other than age."	15	A. Yes.
16	Do you see that?	16	Q. And the authors state, "They concluded,
17	A. And what do you mean by that? I mean,	17	however, that despite the positive and
18	I didn't again, you know, I	18	significant association, there was insufficient
19	Q. Let me just ask. Is that a	19	information to infer that ovarian cancers were
20	limitation	20	caused by occupational exposure to asbestos
21	A. Yeah.	21	because of concerns about tumor
22	Q on the analysis?	22	misclassification, inappropriate comparison
23	A. It is a limitation.	23	populations and the failure to take into account
24	Q. Hasn't failure to account for	24	for known risk factors."
25	misclassification and known risk factors been	25	Is that
	Page 295	_	Page 297
1	cited as a reason why causality cannot be	1	A. Again
2	established?	2	Q. You don't disagree with that, do you?
3	MS. PARFITT: Objection.	3	A. Yeah. I mean, I don't but I don't
4	A. We can't rely on IARC. As you said,	4	disagree I mean, I'm relying on the IARC
5	one said that it is possibly associated and here,	5	assessment and others that, you know, there's a
6	when they haven't arrived at a I mean,	6	causal association between exposure. Again, I
7	causality is just not about association in one.	7	did not review. I would have gotten and reviewed
8	I mean, they have to look at other biological	8	evidence, Edelman and White and others, if I had
9	mechanisms of asbestos and ovarian cancer, you	9	to do it over again.
10	know, what happens in the lab, what happens I	10	MR. ZELLERS: Let's take a break.
11	haven't done that evaluation.	11	We'll come back and I'll finish up. Thank you.
12	So, yes, this is a limitation. But this	12	THE VIDEOGRAPHER: Off the record,
13	needs to be taken into account with, you know,	13	3:32 p.m.
14	the entire body of evidence on asbestos and	14	(A recess was taken.)
15	ovarian cancer.	15	THE VIDEOGRAPHER: Here begins Media
16	Q. You're looking at and relying on	16	No. 5 in today's deposition of Sonal Singh, MD,
17	papers, including Reid, Exhibit 30?	17	M.P.H. Back on the record, 3:43 p.m.
18	A. The IARC monographs.	18	BY MR. ZELLERS:
19	Q. And Kamargo, Exhibit 31; is that right?	19	Q. Dr. Singh, do you agree that exposure
20	A. Yes. And, again, I'm clarifying that	20	to asbestos through perineal cosmetic talc use,
21	I'm not making a causal determination on IARC,	21	assuming the talc contains asbestos fibers, is
22	you know. I'm just relying on that, you know,	22	different than the heavy occupational exposure
23	that I'm not first of all, I didn't set out to	23	that's primarily been researched?
24	make a causal determination on asbestos and	24	MS. PARFITT: Objection to form.
25	ovarian cancer.	25	A. Again, you know, I've not professed to

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	Page 298		Page 300
1	be an expert in different kinds and routes of	1	may do testing and provide antioxidants and
2	asbestos exposure. My my sort of at least	2	substances which reduce the risk. So that will
3	my understanding of my causal question was	3	have to be weighed.
4	exposure to talcum powder products and ovarian	4	But I am not providing that causal link
5	cancer and whether the constituents can provide	5	between the individual constituent and ovarian
6	evidence in support or refute that association.	6	cancer.
7	So, you know, whether asbestos exposure,	7	Q. And that would be true for any of the
8	what different kinds, others will opine on that.	8	individual fragrance chemicals and heavy metals
9	Q. Do you know what a cleavage fragment	9	that may be present in the baby powder; correct?
10	is?	10	MS. PARFITT: Objection.
11	A. No. And we can go on on this kind of	11	A. I don't have that area of expertise on
12	stuff, and I'll say no.	12	individual constituents in products.
13	Q. Do you know how it differs from an	13	MR. ZELLERS: I have no further
14	asbestos fiber?	14	questions. Thank you.
15	A. No. And I'm not a mineralogist.	15	THE WITNESS: Thank you for your time.
16	Q. If I ask you a whole line of questions	16	(Discussion off the record.)
17	about different types of asbestos, you're going	17	THE WITNESS: Thank you.
18	to defer to other folks?	18	MR. ZELLERS: Thank you, Doctor.
19	A. Yes.	19	MR. KLATT: Give me a minute to get
20	Q. Is there any epidemiology	20	organized here, Doctor.
21	substantiating the theory that fragrance	21	THE WITNESS: Sure.
22	ingredients can cause ovarian cancer?	22	MR. KLATT: Are we off the record?
23	A. I'm not aware of such studies.	23	THE VIDEOGRAPHER: No.
24	Q. Is there any epidemiology	24	MR. LOCKE: Let's go off the record,
25	substantiating the theory that exposure to trace	25	then.
	Page 299		Page 301
1	amounts of the heavy metals at issue can cause	1	THE VIDEOGRAPHER: Off the record,
2	ovarian cancer?	2	3:47 p.m.
3	A. I'm not aware of you know, again, I	3	(A recess was taken.)
4	didn't do the evaluation, trace the specific	4	THE VIDEOGRAPHER: Back on the record,
5	constituents of ovarian cancer. I just was	5	3:51 p.m.
6	trying to understand the constituents, what are	6	CROSS-EXAMINATION
7	they. I just, you know, whether trace trace	7	BY MR. KLATT:
8	elements cause inflammation and you know, but	8	Q. Good afternoon, Dr. Singh. My name is
9	I am not aware of studies that link them directly	9	Mike Klatt, and I represent Imerys Talc America
10	to ovarian cancer.	10	in this case.
11	Q. You're not opining in this case that	11	Have you ever heard of Imerys Talc America
12	the fragrance chemicals and heavy metals that may	12	before you got involved in this case?
13	be present in baby powder are causally associated	13	A. I have, but, you know, I don't know in
14	with ovarian cancer.	14	what context and what, you know.
15	MS. PARFITT: Objection.	15	Q. Do you know what Imerys Talc America
16	Q. Correct?	16	does?
17	MS. PARFITT: Form.	17	A. I don't know all the details of the
18	A. Yes. I'm not again, I'm not opining	18	activities or, you know, Imerys.
19	on the individual constituents of talcum powder	19	Q. As you know, Mr. Zellers has covered a
20	products. My opinion is, you know, I look at the	20	fair amount of ground already. And so I'm going
21	exposure and the exposure is talcum powder	21	to skip around just to ask you some follow-up
		22	questions.
22	products, and the presence of constituents, some		1
	products, and the presence of constituents, some of which are identified as, you know, Grade 1	23	You said earlier today, when you were
22	= -		•
22 23	of which are identified as, you know, Grade 1	23	You said earlier today, when you were

Page 304 Page 302 1 ovarian cancer? 1 subject; correct? 2 2 A. Sure. MS. PARFITT: Objection. Form. 3 3 Q. And I just wanted to get a better A. I mean, depending -- I don't know the 4 understanding of what you were referring to. 4 specifics on arrangement, but the question is, 5 5 A. Yeah. So after, sort of -- and I'm not you know, as long as the disclosure is 6 6 going to do it until this is all over, because I transparent, and as long as, you know, the 7 feel that there, you know, I have access to 7 funding mechanisms, what was the reasons, yeah. 8 documents that are -- that are sort of protected 8 So it's not like they have commissioned this 9 9 by court order. review. 10 But partly what I'm thinking of is -- like 10 I mean, first of all, I have just thought 11 there have been so many systematic reviews and 11 about it. I haven't even done it. I'm not sure 12 meta-analyses that I was thinking more on the 12 I'll do it with my time. But you would have to 13 kind of like an umbrella review of all these 13 disclose that, yeah. 14 reviews that I cite in my report and with, you 14 Q. But my question, and, again, I think 15 know, some of the rating of reviews. 15 we'll go quicker if we just focus on the question 16 And then -- and that's sort of my thinking, 16 asked and the answer to that question. 17 was that what I would do is synthesize the 17 But my question is: It's entirely 18 evidence, that -- what I do best is synthesize 18 appropriate for companies to contact and retain 19 the evidence from other studies in trying to --19 outside experts to advise them and then to 2.0 you know, so it would be separate from, like, 20 publish articles in the literature. 21 because he asked the question, would you do a 21 You've done it yourself; correct? 2.2 systematic review? You know, meta-analysis. No. 22 MS. PARFITT: Objection. Form. 23 Because there have been so many already. 23 You may answer. 24 24 Q. Have you undertaken that project yet or A. Yeah. I have actually been, you know, 25 is this just something you're thinking of? 2.5 I have worked with Eli Lilly on systematic Page 303 Page 305 1 1 reviews of diabetes medications. A. Yeah. I'm thinking about --2 2 Q. I'm sorry. Let me finish. And -- to a point of clarification, I was 3 3 This is something you're just thinking about not paid by them, but I was an expert on that, 4 4 doing in the future? which is sort of a strange arrangement; right? 5 5 You don't get paid, but you're still working for. A. In the future. But I have 6 conceptualized, if I were to do that, that's what 6 But, you know, that's my area of expertise. So, 7 I would do. 7 yeah, companies hire and that's how science 8 8 Q. And if you do do that, you would be works. 9 9 obliged, would you not, to disclose to whatever Q. And, for example, if you contacted your 10 10 entity, body, journal, that you submitted this institution, the University of Massachusetts Medical Center, about this ovarian cancer risk 11 work to, that you had been a retained, paid 11 12 expert by plaintiffs in the talc ovarian cancer 12 factors web pages that they have, and you had any 13 litigation; correct? 13 input on that, you would disclose that you're a 14 A. Yeah. And that's been my standard 14 paid plaintiffs' expert in talc ovarian cancer 15 15 practice. If you go back and look at my papers, litigation; correct? 16 you know, my papers on SGLT2 inhibitors, I've 16 A. Well, so to do that, I don't know where 17 disclosed that I was funded by, you know, 17 that web page came from. I didn't contact them. 18 Janssen. You know, a paper on statins that I 18 Yes, but, you know, I'm not trying. So I don't 19 wrote last year, I was a paid expert. 19 know if you're thinking about like the up-to-date 20 So it's just standard practice for us to do 20 example. I didn't want to change. I was just 21 21 providing them references. that. 22 Q. And now that you bring that up, there's 22 But, yes, if I was trying to make changes to 23 absolutely nothing wrong with a company like 23 a document that that's on, you know, I'm trying 24 Janssen or any other company hiring an outside 24 to write something up, then if you look at my 25 expert to advise them and to publish on a certain 25 letter, it's just a contact point. If I'm trying

Page 308 Page 306 1 to write something up and say, you know what, it 1 on time and other considerations. 2 increases the risk of cancer, decreases, then, 2 Q. And, again, focusing my question very 3 3 yes, I'd disclose that. specifically, the case-control studies on talc 4 Q. And just to go over that point --4 and ovarian cancer, the cohort studies on talc 5 5 A. Yeah. and ovarian cancer, the meta-analysis on talc and 6 6 Q. -- when you wrote the editor about Up ovarian cancer that you've reviewed in this case 7 To Date, suggesting that they update their 7 and that you've cited in your expert report in website regarding talc and ovarian cancer, you 8 8 this case, none of those are bound by a 9 did not disclose that, at that time, you were a 9 protective order that would prevent you from 10 paid retained plaintiffs' expert; is that 10 reading them, analyzing or publishing on them; 11 correct? 11 correct? 12 A. Yes. But I asked them to clarify that 12 A. None of them are restrictive. Everybody has access. I had, too. 13 this was just to update the references, if you 13 14 look at them. 14 Q. Okay. You talked briefly about the 15 Q. Now, going back to what this 15 Centers for Disease Control this morning. 16 conceptualizing you're having of potentially one 16 A. Yes. 17 day publishing something about talc and ovarian 17 Q. Have you ever worked with them? cancer, okay, that's what I'm asking about. 18 18 A. No. I've applied for grants with them, 19 Are we on the same page? 19 and I wasn't funded, but I'm aware of them. 20 A. Yeah. 20 21 Q. Wait. I just want you to know what I'm 21 Q. Have you ever conducted a 22 asking about. Okay? 22 population-based, case-control study yourself? A. Okay. 23 23 Q. Now, you would agree with me, you 24 24 Q. As principal investigator? 25 mentioned this morning there were confidentiality 2.5 A. Yes. Page 307 Page 309 1 orders in place. But you'd admit that all of the 1 Q. Have you done so for cohort studies? 2 case-control epidemiology and all the cohort 2 A. No. Not a cohort study. 3 epidemiology and all the meta-analysis that 3 Q. Could we go to Langseth, whatever 4 you've reviewed are all out there in the 4 exhibit number that is? 5 published literature; correct? 5 MR. TISI: I've got it. It's 6 A. The majority of them, studies are, 6 Exhibit 21. I've got a copy of it here. 7 yeah. I mean, Taher is not out in the 7 MS. PARFITT: Yeah. I know. 8 8 literature. It's still in somewhere. MR. TISI: Do you mind me giving our 9 9 Q. There's no -- there's no meta-analysis copy? 10 cohort study or case-control study you're aware 10 MR. KLATT: No. Not at all. of that is controlled or -- by some sort of 11 11 BY MR. KLATT: 12 protective order that would limit you citing it 12 Q. I just have a few more questions. You 13 in some sort of review; correct? 13 were already asked about Langseth, but I just 14 MS. PARFITT: Objection. Form. 14 have a few more questions for you. A. So, first of all, yeah. As you know, At the time the Langseth study was 15 15 Taher is sort of not published. So I don't know published, you would agree with me, Doctor --16 16 17 how much of the data you can use. MS. PARFITT: I'm sorry, Mike. I 17 But in terms of protective, I don't know all 18 18 didn't hear your question. I'm sorry. 19 the rules about what you can use and not use. 19 Q. Yeah. Let me start over. 20 So, I mean, it's just more my unfamiliarity with 20 MS. PARFITT: I appreciate that. 21 the process, but nothing -- if you're asking the Q. I'm talking about the Langseth paper 21 that we've marked as Exhibit 21; is that correct? 22 question, is something preventing me from doing 22 23 It was published in 2008 by the IARC working that? No. 23 24 Q. Okay. 24 group members; correct? 25 A. Can I go ahead and do it? It depends 25 A. Yes. Some of the members. I suspect

	Page 310		Page 312
1	the group is much larger than these folks.	1	it, in and of itself, was not statistically
2	Q. Well, these happened to be	2	significant; correct?
3	epidemiologists on the IARC working group;	3	MS. PARFITT: Object to the form.
4	correct?	4	A. Yes. But it was consistent with the
5	A. I don't know all their qualifications.	5	overall estimates.
6	Q. Do you know any of those people	6	Q. And the cohort study didn't show an
7	personally who are listed as authors on	7	increased risk. And the two cohort studies since
8	Exhibit 21?	8	Langseth have not shown an increased risk of
9	A. No.	9	ovarian cancer in talc users; correct?
10	Q. I'll represent to you that they're	10	MS. PARFITT: Objection. Misstates the
11	epidemiologists. You would agree with me, that	11	evidence.
12	if you turn over to Page 2, they listed 14	12	A. I see that, A, two of the cohort
13	population-based, case-control studies up at the	13	studies have showed an excess risk, which is not
14	top, and then they had six more hospital-based,	14	statistically significant. One study has showed
15	case-control studies; correct?	15	statistically significant increased risk, and the
16	A. Yes.	16	third studies have showed, you know, risk
17	Q. At this time, there was one cohort	17	estimates lower than one, but their upper bounds
18	study all on the subject of talc and ovarian	18	are entirely consistent with what we see here and
19	cancer at the time; correct?	19	subsequent to this.
20	A. Yes.	20	Q. So the population-based, case-control
21	Q. You would admit that the	21	studies collectively show an increased risk. But
22	population-based, case-control studies did not,	22 23	they're inconsistent; correct?
23	consistently across the board, show a	24	A. No.
24 25	statistically significant increased risk according to the table in Exhibit 21, the	25	MS. PARFITT: Objection. A. I mean, let's go to Penninkilampi. I
25	according to the table in Exhibit 21, the	43	A. Thean, let's go to reministration. T
	Page 311		Page 313
1	Langseth paper. Some were statistically	1	mean, they clearly opine that
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2 3 4 5 6	Langseth paper. Some were statistically significant, and others were not; correct? A. Yeah. But I mean, I don't view statistical significance as Q. Doctor A areas of consistency.	2 3 4 5 6	mean, they clearly opine that Q. I'm asking you about Langseth. A. Why are we looking at 2008 when we are in 2019? Q. Because I'm asking the questions. A. Okay.
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	Page 314		Page 316
1	correct?	1	things you had reviewed was an Exhibit 47 to
2	A. Sorry. Just give me a second.	2	Imerys employee Julie Pier's deposition.
3	Yeah. The Bradford Hill overviews as one.	3	Do you recall that?
4	Q. And you know, Sir Bradford Hill himself	4	A. Yes. If you can show me that.
5	said that, in evaluating consistency, you have to	5	MR. KLATT: Sure.
6	look at consistency across different study	6	THE WITNESS: Thank you.
7	designs; correct?	7	MR. KLATT: I'm sorry. I'm sorry.
8	A. Yeah. And times and places and other	8	THE WITNESS: Exhibit
9	things.	9	MR. KLATT: Yeah. Let's mark it as the
10	Q. But I'm correct that Dr. Bradford or	10	next exhibit. And that would be 33; is that
11	Sir Bradford Hill said that you have to look at	11	correct?
12	consistency across different study designs;	12	MS. PARFITT: 32.
13	correct?	13	COURT REPORTER: Here is 32 that you
14	A. That's what I state in my testimony, as	14	haven't used.
15	well in my report cites that specific phrase,	15	MR. KLATT: Let me do this. Yes. That
16	consistency across study designs, times and	16	will be 32.
17	places. So I am not you know, I am, in fact,	17	(Chart marked Exhibit 32.)
18	quoting him when I cite that.	18	MR. TISI: The chart?
19	Q. You said, on Page 15 of your report,	19	MR. KLATT: Yes.
20	that, "Talc-based body powders are used	20	BY MR. KLATT:
21	habitually for months or years rather than just a	21	Q. I'm going to show you what's been
22	single application"; correct?	22	marked as Exhibit 32 to this deposition. But for
23	A. Where is that?	23	future record references, it also has, in the
24	MS. PARFITT: Page 15.	24	upper right-hand corner, a photocopy, Exhibit
25	Q. Page 15.	25	No. 47; correct?
	Page 315		Page 317
1		1	Page 317 A. Yeah.
1 2	A. Where is that? I'm sorry. Which part	1 2	A. Yeah.
2	A. Where is that? I'm sorry. Which part of it? 15. I know I have 15. Is it the last		A. Yeah.Q. Exhibit 47 was the exhibit number at
2 3	A. Where is that? I'm sorry. Which part of it? 15. I know I have 15. Is it the last paragraph or	2	A. Yeah.Q. Exhibit 47 was the exhibit number atMs. Pier's deposition, and Exhibit 32 is the
2 3 4	A. Where is that? I'm sorry. Which part of it? 15. I know I have 15. Is it the last paragraph or MS. PARFITT: Yeah.	2 3 4	A. Yeah. Q. Exhibit 47 was the exhibit number at Ms. Pier's deposition, and Exhibit 32 is the exhibit number we're marking this today; correct?
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	D 210		200
	Page 318		Page 320
1	Q. And where on that first one, and we're	1	on your report where I think you refer to it.
2	looking at the very first line across the top of	2	A. I know it's in the biologic
3	Exhibit 32	3	plausibility section somewhere.
4	A. Sure.	4	Q. Look on page I believe it's Page 61
5	Q where in the world does it say that	5	of your report.
6	that was a sample of talc that ended up in	6	A. Yes.
7	Johnson & Johnson's talc-based body powder	7	Q. No. I'm sorry. It's Page 59 of your
8	products?	8	report. And it's the third paragraph down.
9	A. Well, my understanding, and I can share	9	A. Mm-hmm.
10	that, that this was this was that that	10	Q. And you say, in the middle of the third
11	testimony was given that this was a testing of	11	paragraph, "In studies of human mesothelial
12	mines that was being mined by Imerys or I	12	cells, both nonfibrous talc and asbestos have
13	mean, that contained asbestos.	13	shown evidence of genotoxicity," and the
14	Whether it ended up in baby powder was not	14	reference is 109, and my understanding is
15	the question. The question was: Does talc	15	reference 109 is the Shukla paper published in
16	contain asbestos?	16	2009; correct?
17	Q. Did plaintiffs' counsel ask you to make	17	A. Where are you referring? I'm sorry.
18	that assumption?	18	In Page 59?
19	A. No. No.	19	Q. Page 59 of your report, third
20	Q. Okay. Well, then, I'm confused,	20	paragraph.
21	because Imerys and its predecessors have tested	21	A. Yeah.
22	literally thousands of samples of talc from	22	Q. Second sentence.
23	competitors, from their own mines, from mines	23	A. Yeah. It says here, should be Shukla.
24	that are never used for cosmetic purposes or baby	24	Yeah.
25	powder, so how can you tell me that the first	25	Q. Did you read the Shukla paper?
	Page 319		Page 321
1	sample on Exhibit 32 has anything to do with baby	1	A T 1 1 T1'1 1 1'
	1 , ,		A. I read you know, I didn't read it
	powder?	1 2	A. I read you know, I didn't read it line by line. But, yes, I read it.
2 3	powder? A. Well, I'm not telling you anything to	2	line by line. But, yes, I read it.
3	A. Well, I'm not telling you anything to	2 3	line by line. But, yes, I read it. Q. You know the Shukla paper has nothing
3 4	A. Well, I'm not telling you anything to do with baby powder. My question is that, you	2 3 4	line by line. But, yes, I read it. Q. You know the Shukla paper has nothing to do with genotoxicity; correct?
3 4 5	A. Well, I'm not telling you anything to do with baby powder. My question is that, you know that what constitutes talcum powder	2 3 4 5	line by line. But, yes, I read it. Q. You know the Shukla paper has nothing to do with genotoxicity; correct? A. I mean, we can look at it.
3 4 5 6	A. Well, I'm not telling you anything to do with baby powder. My question is that, you know that what constitutes talcum powder products. And based on this and, you know, talc	2 3 4 5 6	line by line. But, yes, I read it. Q. You know the Shukla paper has nothing to do with genotoxicity; correct? A. I mean, we can look at it. Q. Sure. It's about gene expression;
3 4 5 6 7	A. Well, I'm not telling you anything to do with baby powder. My question is that, you know that what constitutes talcum powder products. And based on this and, you know, talc is mined together with all these other particles,	2 3 4 5 6 7	line by line. But, yes, I read it. Q. You know the Shukla paper has nothing to do with genotoxicity; correct? A. I mean, we can look at it. Q. Sure. It's about gene expression; correct?
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	Page 322		Page 324
1	Q. Gene expression is something that	1	common in these lawsuits, wasn't associated with
2	occurs in our bodies every day; correct?	2	pelvic inflammatory disease; correct?
3	Trillions of times every day; correct?	3	A. Again, I don't remember the papers.
4	A. Yeah. Yeah.	4	Sorry.
5	Q. And changes in gene expression, in and	5	Q. All right. Well, it's on Page 58 of
6	of themselves, don't establish genotoxicity;	6	your report and it's reference 122.
7	correct?	7	A. Which page of my report?
8	A. Yeah. And I'm not again, this, you	8	Q. Page 58 of your report that cites
9	know, in the section on biologic plausibility,	9	reference 122.
10	I'm not making this argument that talc is an	10	MS. PARFITT: Here's the article.
11	established mutagen and, you know, whether it's a	11	Q. Do you see the reference?
12	genotoxic or nongenotoxic carcinogen. I'm just	12	A. Yeah. Yeah.
13	citing the studies.	13	Q. Do you see the reference in your
14	So, I mean, again, I don't have that	14	report?
15	expertise, and, you know, does it provide	15	A. Sure.
16	evidence for or against biological plausibility	16	Q. And reference 122 is to the Rasmussin
17	mechanisms.	17	paper from 2017 on pelvic inflammatory disease
18	Q. Okay. But you don't have the expertise	18	and ovarian cancer; correct?
19	to judge that; correct?	19	A. Yeah. And my citation is correct. I
20	MS. PARFITT: Objection.	20	mean, about borderline ovarian. I don't misquote
21	A. No. I have expertise to judge whether	21	the study.
22	these studies suggest evidence of, you know,	22	Q. I didn't say you misquoted it, but the
23	changes and we should probably just look at it	23	study does stand for the proposition that the
24	give me a second.	24	most common form of ovarian cancer, both in the
25	Q. Sure.	25	U.S. and in these lawsuits, high-grade serous
	Page 323		Page 325
1	MS. PARFITT: Give me a second.	1	ovarian cancer is not associated with pelvic
2	Q. My specific question is you cited	2	inflammatory disease; correct?
3	Shukla for evidence of genotoxicity, but it says	3	A. Where does it show that? I didn't
4	nothing whatsoever about genotoxicity, does it?	4	Q. Can you go to the "Discussion" section.
5	A. We have to look at the paper before we	5	A. Again, you know, my view of
6	say that.	6	inflammation was, you know, I was looking for
7	It's 109. Yeah. Let me look in my binder.	7	evidence for or against. And, you know, I wasn't
8	I think I have all the studies.	8	disaggregating by ovarian cancer subtype, but I'm
9	Q. Doctor, I'll represent to you, in the	9	happy to look at it.
10	interest of time, I've searched the Shukla paper,	10	MS. PARFITT: Mark, do you have a page
11	and the word "genotoxicity" or "mutagenicity" is	11	in the article?
12	never mentioned in the paper.	12	MR. KLATT: I don't know if we have the
13	A. I I don't want to deny that. It may	13	same pagination, but my page is
14	be. I just feel that I wouldn't have used that	14	MS. PARFITT: Here. I got it. It's 29
15	term had I not seen it there.	15	of 33.
16	Q. In the interest of time, rather than	16	MR. KLATT: I believe that's right.
17	wasting time, let's move on.	17	MS. PARFITT: Okay.
18	You'd agree with me that pelvic inflammatory	18	MR. KLATT: It's the "Discussion"
19	disease is chronic inflammation of the ovaries,	19	section.
20	fallopian tubes and peritoneum; correct?	20	MS. PARFITT: Yes.
21	A. Yes.	21	BY MR. KLATT:
22	Q. And, yet, you cited the Rasmussin	22	Q. And if you look at the "Discussion"
23	paper, and the Rasmussin paper says that	23	section, Doctor
24	high-grade serous ovarian cancer, which is the	24	A. Yes.
25	most common form of ovarian cancer and the most	25	Q it starts the very first

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Page 328 Page 326 1 paragraph starts with "to our knowledge"; 1 Q. So the paper you cited, the 2017 2 2 Rasmussin paper on pelvic inflammatory disease correct? 3 3 A. Yeah. and ovarian cancer is inconsistent with the 4 O. Okay. Go down one, two, three, to the 4 theory that chronic inflammation causes 5 5 fourth paragraph starting with "in the present high-grade serous ovarian cancer; correct? study"? A. Let's go to Paragraph 3. 6 6 7 A. Sure. 7 Q. Could you just answer my question? 8 Q. And in that paragraph, tell me if I 8 A. Yeah. I'm trying to. MS. PARFITT: Objection. 9 correctly quote this sentence. 9 10 "Conversely, no convincing associations 10 A. No. It isn't inconsistent. between PID," which is pelvic inflammatory 11 Because if you look at Paragraph 3, they 11 disease, "and the risk of high-grade serous, state, "Furthermore, we observed similarly 12 12 increased risks of serous and mucinous borderline 13 mucinous, clear cell or endometrioid ovarian 13 cancer were noted in the main analysis." 14 tumors associated with PID status. Furthermore," 14 15 Did I read that correctly? 15 and they also state, "Sensitivity analysis 16 16 revealed statistically significant increased risk A. Yes. of low-grade serous and endometrial when using Q. And then if you go down to the very 17 17 next paragraph that begins with "nevertheless." data from the North American..." 18 18 So I don't think your -- and concerning the A. Yeah. I see that, but I --19 19 Q. Wait. Wait. 20 histologic subtypes, indications of risk of 20 21 A. No. No. I need to answer your 21 low-grade serous cancers were noted in the main 22 22 analysis. I wasn't disaggregating. But this question. entirely consistent with what I quote here, that 23 Q. I'm just asking you, first of all, if 23 24 you increase serous type and you increase 24 I'm reading this correctly. low-grade type and you increase histologic. A. Sure. 25 25 Page 329 Page 327 1 Q. In the next paragraph that begins with 1 You are trying to disaggregate this into a 2 2 high-grade serous. I don't know what's in the "nevertheless," do you see what I'm talking 3 3 lawsuit. I'm really not opining on -about? 4 Q. I'm not trying to disaggregate 4 A. Yeah. anything, Doctor. I'm saying Rasmussin, the 5 5 Q. There's a sentence that says, 6 midparagraph, "In contrast, no associations 6 study that you --7 7 between pelvic inflammatory disease and A. Yeah. 8 high-grade serous ovarian cancer were observed"; 8 Q. The study that you chose to cite --9 9 correct? Q. -- in your article indicates there's no 10 10 Did I read that correctly? association between pelvic inflammatory disease 11 11 A. Our results suggest -- I'm sorry. 12 Where --12 that is a chronic disease of the female 13 Q. In contrast. Do you see the sentence 13 reproductive tract and high-grade serous ovarian that says "in contrast"? 14 14 cancer; correct? A. Where was it? Is it in the same 15 15 A. And the same -paragraph? 16 16 MS. PARFITT: Objection is. 17 17 A. -- study showed an increase risk of --Q. It's the paragraph starting with 18 "nevertheless, our results." 18 Q. Is that correct? 19 A. Yeah. But it says differentially. 19 MS. PARFITT: Let him finish, please. 20 A. -- between PID and serous ovarian 20 Where does it say in contrast? In contrast. cancer. So it sort of is -- is consistent with 21 21 Yeah. my hypothesis of inflammation and ovarian cancer. 22 Q. Okay. Can you read that sentence? 22 23 A. "In contrast, no associations between 23 I was not disaggregating histologic 24 PID and high-grade serous ovarian cancers were 24 subtypes. 25 observed." 25 Q. My question is not about low-grade

Page 332 Page 330 serous that doesn't occur very often. My 1 1 cancer. So if we disaggregate it, then we have 2 2 question is about high-grade serous ovarian to disaggregate the way they have defined it. 3 cancer in the evidence from the Rasmussin paper, 3 Q. And when we disaggregate, you come to 4 and they say clearly twice, that pelvic 4 the conclusion that inflammation is associated 5 inflammatory disease is not associated with 5 with borderline ovarian cancer. But, in 6 high-grade serous ovarian cancer; is that 6 fairness, you have to come to the conclusion that 7 correct? 7 inflammation is not associated with high-grade 8 A. That's what they state in the study. 8 serous ovarian cancer? 9 But they also state clearly that serous ovarian 9 MS. PARFITT: Objection. 10 cancer is associated with PID status. So that's 10 Q. If you're being objective; correct? 11 also clearly stated. 11 MS. PARFITT: Objection. Misstates 12 Q. And if, indeed, as they state, there is 12 testimony. 13 no association between high-grade serous ovarian 13 A. I am being objective. I am providing 14 cancer and pelvic inflammatory disease, that's 14 that they conclude, not I conclude, that, you 15 inconsistent with the theory that inflammation 15 know, inflammation is PID, you know, it's just 16 causes high-grade serous ovarian cancer; correct? 16 one aspect of inflammation. PID is associated 17 MS. PARFITT: Objection. Form. 17 with serous ovarian cancer. And, yes, it is not 18 A. So, again, you know, first of all, you 18 associated with high-grade epithelial ovarian 19 know, I -- other people will opine to the 19 cancer. 20 biologic sort of arguments about inflammation and 20 Q. You talked with Mr. Zellers earlier 21 ovarian cancer. And I did not disaggregate 21 today about recall bias, correct, and how it can 22 specific, and I don't think this study is 22 operate in case-control studies? 23 inconsistent with what I state here. And I note 23 A. I don't recall the details. 24 that borderline ovarian cancer. 24 Q. But you recall the subject was 25 So this is entirely consistent with the 2.5 discussed --Page 331 Page 333 1 inflammation hypothesis. And I just, you know --1 A. Yes. 2 Q. In your report, you cited what you 2 Q. -- correct? thought was consistent with the inflammation 3 A. Yes. And I'm going to take a break in 3 4 4 theory, but you didn't cite the evidence from 5 Rasmussin that was inconsistent with the 5 Q. Sure. Do you know if, in any of these б inflammation theory; correct? 6 case-control studies -- well, let me back up. 7 7 MS. PARFITT: Objection. A case-control study takes a group of cases 8 A. No. I was not disaggregating to the 8 which are women with -- who already have ovarian 9 level of each histologic subtype. 9 cancer, and interviews them; correct? 10 10 Q. Well, didn't -- in your report, on A. Yes. 11 11 Page 58 --Q. And then it takes a group of controls 12 A. Yeah. 12 and, in the context of a population-based 13 Q. -- didn't you make the specific point 13 case-control study, those controls are healthy that Rasmussin said inflammation was associated women out in the community; correct? 14 14 with low-grade cancer? 15 A. Yeah. In the context of -- yes. 15 A. No. It just said increased risk of 16 16 Q. Do you know if any of these 17 borderline ovarian cancer. 17 case-control studies, when they were interviewing 18 Q. Okay. Borderline. That's a specific 18 the case women who had ovarian cancer, asked them 19 type of ovarian cancer. 19 when they entered the study, "Do you have any 20 preconceived notions about what might have caused 20 A. Sure. 21 Q. So you did disaggregate in your report, 21 your ovarian cancer?" didn't you? 22 22 A. I didn't review that specific question. 23 23 Q. Wouldn't that be an important question A. Sure. Yeah, but I mean, if you look at 24 the study, and we want to disaggregate it, the 24 to ask? Because if a woman already has a 25 study still shows a risk of serous ovarian 25 preconceived notion from research or word of

	Page 334		Page 336
1	mouth what might cause her ovarian cancer, that	1	eliminate for the possibility of recall bias.
2	may bias the results; correct?	2	Others may design it differently.
3	MS. PARFITT: Objection.	3	THE WITNESS: I'm going to take a
4	A. There's lots of different questions you	4	break.
5	could ask them. You know, I would have, if I had	5	MR. KLATT: Sure.
6	designed a study, I would have asked many other	6	THE VIDEOGRAPHER: Off the record,
7	questions.	7	4:30 p.m.
8	Q. And would you have asked that one, "Do	8	(A recess was taken.)
9	you have preconceived notions as to what might	9	THE VIDEOGRAPHER: Back on the record.
10	have caused your ovarian cancer," before you	10	4:36 p.m.
11	entered the study?	11	BY MR. KLATT:
12	A. I don't you know, I don't I	12	Q. Doctor, are you board certified in
13	haven't thought about that conceptual or new	13	epidemiology?
14	study. I'm not sure that is that important	14	A. No.
15	question to ask.	15	Q. Are you a member of the American
16	Q. It wouldn't be an important question to	16	College of Epidemiology?
17	ask women entering a study, a case-control	17	A. No.
18	study	18	Q. Are you a member of the Society for
19	A. Sure.	19	Epidemiologic Research?
20	Q women who have ovarian cancer, "Do	20	A. No.
21	you have a preconceived notion about what caused	21	MR. KLATT: All right. I'm going to
22	your ovarian cancer?"	22	turn it over to Mr. Locke. Thank you for your
23	A. You know, I've done designed	23	time.
24	case-control studies of etiology cases and	24	THE WITNESS: Thank you.
25	outcomes. I've never asked the participants	25	THE VIDEOGRAPHER: Off the record,
	Page 335		Page 337
1	Page 335 about what is your preconceived notions about	1	Page 337 4:36 p.m.
1 2		1 2	
	about what is your preconceived notions about		4:36 p.m.
2	about what is your preconceived notions about certain outcomes.	2	4:36 p.m. (A recess was taken.)
2	about what is your preconceived notions about certain outcomes. I mean, I'm just trying to understand, why	2	4:36 p.m. (A recess was taken.) THE VIDEOGRAPHER: Back on the record,
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litigation trials?

Sonal Singh, M.D., M.P.H.

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Page 340 Page 338 1 today, have you worked with any of the A. I remember asking about this specific plaintiffs' lawyers with whom you've had dealings 2 2 trial. I have not asked for other trial 3 3 testimony, I don't think. 4 4 Q. When you say "this specific trial," A. Yeah. I mentioned that I worked with 5 Attorney Restaino in the atorvastatin that is 5 what do you mean? 6 listed on my testimony. 6 A. When I said -- you know, I said, in 7 Q. Anyone else? 7 this litigation, have epidemiology testimony been 8 A. No. 8 submitted. And I have asked for it. Yeah. 9 Q. Have you worked with the Beasley Allen 9 Q. Would it be relevant to you that other 10 10 scientists have analyzed the very same issues firm? 11 A. They're not -- I don't know if they're 11 that are encompassed in your report and testified part of this talc. The name sounds familiar. I 12 12 on behalf of defendants in other talc litigation? just don't know the name of the lawyers. 13 13 A. Yeah. And as you see that, I have not 14 Q. Right. They're part of the lead 14 even had a chance to review the expert report 15 plaintiffs' counsel in this multi-district 15 of -- on behalf of the plaintiffs that were litigation. 16 submitted in the list. 16 17 A. But I just have had correspondence with 17 So, yes, it will be nice to do that. A, how these lawyers. So, you know, I may have had --18 18 much time; and, B, you know, I think it would 19 received, I don't know, documents or -- I don't 19 probably be more prudent to wait for the 20 know if invoices or something that may have. But 20 epidemiologists on this particular case. 21 I don't -- I haven't, like, corresponded with the 21 But, you know, as you said, I haven't even lawyers of Beasley Allen. 22 22 had the chance to review the plaintiffs' experts. Q. What I'm asking about is whether you 23 23 And, you know, I asked for defendants' expert, had worked with the Beasley Allen firm prior to 24 24 you know, report. 25 this talc litigation. 25 Q. You asked for defendants' expert Page 339 Page 341 1 A. I have listed the -- you know, 1 reports in this litigation. 2 listed the cases I worked for. I don't remember 2 A. Sure. 3 the name of the counsels and, you know, who were 3 Q. But you didn't ask for defendants' on the firms. So if it ended up that they were 4 4 expert reports, deposition transcripts or trial 5 involved in Viagra or something else, that's just 5 testimony in the prior talc litigation? 6 a recollection issue. 6 A. How do I know? I mean, I'm not very 7 Q. Okay. Mr. Klatt asked you about 7 familiar with how these, you know, different 8 materials authored by defense experts. Let me 8 trials are occurring, what you can share, which 9 elaborate on that a little bit. 9 attorneys are involved in which trials. 10 Are you aware that various defense experts 10 I'm sorry. I didn't ask for it. I know 11 authored reports in connection with prior talc that, but I'm just not familiar with that 11 12 litigation? 12 process, what they can share. 13 A. No. I'm not aware. 13 Q. Okay. Can you go to Page 10 of your 14 Q. Are you aware that there were prior 14 report. And I guess there are two exhibits to 15 talc trials? 15 it, or it's referred to in two exhibits. 16 A. I mean, I have seen it in the news 16 Are you looking at Exhibit 10 there? 17 that -- I don't know if they're in state court, 17 A. Exhibit 10. 18 federal court, you know. I see it in the news. 18 Q. On the front page. 19 Q. Did you --19 MS. PARFITT: It's your report. Yes. 20 A. California or something. Yeah. I'm 20 A. Exhibit 10. Yes. Q. So if you could go to Page 10, I'd 21 not aware. 21 appreciate that. And on Page 10, you're 22 Q. Did you ask for the testimony of any 22 2.3 defense experts who may have testified regarding discussing, among other things, the advantages 23 24 epidemiology in connection with that other talc 24 and disadvantages of cohort and case-control

25

studies; is that correct?

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Page 342 Page 344 1 A. Yes. 1 be useful, because you couldn't find all of the 2 2 Q. Okay. If you would look at the lung cancer cases. 3 3 paragraph that begins with the phrase A. Yes. And that sort of applies to 4 "case-control studies." 4 Gonzalez. And it was a six-month study, and some 5 5 Do you see that there? of the other cohort studies that were of limited 6 6 A. Yeah. 7 7 Q. Okay. You're explaining your opinion So, yes, I mean, I don't know about the time 8 8 course exactly of lung cancer risk, but can apply why case-control studies have some advantages 9 9 over cohort studies in that paragraph; is that to various outcomes. 10 10 Q. Okay. So what is the latency period correct? 11 for perineal talc exposure and ovarian cancer? 11 A. No. Not necessarily. I mean, that 12 A. I do not have -- I don't know, because, 12 just talks about the strength and weaknesses of 13 various studies designs. I mean, in fact, you 13 you know, I don't -- again, I don't elucidate the 14 know, it talks about whether, you know, that, in 14 mechanism of ovarian cancer and the precise link. 15 fact, it says exposure is ascertained 15 So I cannot tell you that X number of days after 16 perineal talc or months after. I know that it is 16 retrospectively. 17 So I'm just talking about the strength and 17 long-term. It could be months to years. And limitations of various designs. 18 that's as much as I can say. 18 Q. Okay. I was using advantages and 19 Q. So your example, when you were talking 19 20 20 about 12 months, actually, that really wouldn't disadvantages. 21 Is there a significant difference between 21 be a problem or we don't know whether that's a 22 22 problem or not because it could be months? those two? 23 23 A. No. A. That's just the term we use. Yeah. 24 24 Q. Okay. Now, one of the strengths, in MS. PARFITT: Objection. your opinion, of a case-control study, is that it 25 THE WITNESS: Sorry. 25 Page 343 Page 345 1 1 A. So, yeah, months would be a problem. captures the entire time period when an ovarian 2 2 cancer illness could occur: is that correct? It's mostly -- I mean, yes, we have some bounds, 3 3 but most of the studies we see, it is likely to A. That's not necessarily like an entire 4 4 time. First of all, we don't know the precise have been, you know, several years after 5 5 exposure. number of years. 6 But, yes, we know that it is a long-term 6 Q. And how do you know that? Which 7 exposure. So case-control studies allow us to 7 studies have you reviewed or analyzed that say 8 8 ascertain long-term exposure. So that's a much that it's several years after exposure? 9 more accurate reflection. 9 A. Well, all of -- you know, the 10 10 Q. And you were saying one of the case-control studies that have provided data on weaknesses of a cohort study is that it might not duration of exposure and show evidence of 11 11 12 capture all of the ovarian cancer cases because 12 duration responsiveness suggest that -- so, for 13 ovarian cancer can develop over a long period of 13 example, Penninkilampi and others suggest that 14 time; is that correct? 14 this is -- you know, while there are increased 15 risks before both more than 20 years or more than 15 A. Yes. After a particular agent, if it's 16 related, you know. 16 3,600 applications as well as those are less, the 17 17 risk is higher among those with higher duration. Q. Okay. And you mentioned, in fact, 18 there's a sentence here, "It is important to 18 But, again, I cannot partition this at 20 or 19 determine the latency and induction between the 19 15. 20 exposure and the disease to assess the duration 20 Q. Okay. You have a phrase in here that 21 of follow-up"; is that correct? 21 says "because ovarian cancer develops over many A. It is. 22 22 23 23 Q. Okay. And then you give the example of Is that an accurate assessment of your 24 smoking. And you talked about, if you looked at 24 views? 25 it for a 12-month follow-up study, that would not 25

A. Where is that?

Page 346 Page 348 1 Q. If you look at the next paragraph, not even a citation. I mean, it's -- I feel 2 first sentence, last clause. 2 that, and we were discussing that, you know, 3 3 A. Yeah. could a randomized trial be here conducted. And 4 Q. Other plaintiffs' experts have stated 4 to my mind, it would be unethical. So... 5 5 in their reports that the latency period could be Q. Well, yeah. But then you say, 6 6 "Defendants here have admitted this fact." 7 Would you disagree with that? 7 And so I'm just wondering what brought you to that particular part midway in her deposition, 8 A. Yeah. I mean, when I say many years, 8 9 9 it could be -- yeah, I just -the second day of her deposition of a three-day Q. You don't know? 10 10 deposition. A. I don't know the precise. I don't want 11 A. Some of this has, you know -- it just 11 to quantify the number of years. doesn't -- I don't know why I would, you know, 12 12 13 Q. Okay. I want to shift topics a little 13 put it -- but it's sort of -- it's even bit here. You reference Linda Loretz's 14 irrelevant if you take her out of it. Because, 14 15 deposition transcript in -- I think once in your 15 you know, it's like, are we really going to do a 16 16 randomized trial? report. If you would go to Page 7, I believe it is. 17 Q. I agree with you. It's irrelevant. 17 A. Yeah. It's in a footnote. Footnote 1. 18 18 19 A. Mm-hmm. 19 Q. If you could go to Page 62 of your 20 report. You've got a caption there "Cosmetic 20 Q. Now, did you read the entirety of 21 Dr. Loretz's deposition transcript? 21 Expert Review Panel Report." 22 A. Again, these are so many documents. I 22 Do you see that? mean, I reviewed, you know, not -- but I don't A. Yes. 23 23 24 O. Roman numeral XII? 24 know if I read the whole transcript. Yeah. 25 Q. Do you know how many days she was 2.5 A. Yes. Page 347 Page 349 deposed? 1 Q. Do you know what the name of the 1 2 2 A. I don't recall. organization is that you're referring to in that 3 3 Q. More than one day? paragraph? 4 A. I don't know that. I'm sorry. 4 A. I don't know the name. 5 Q. So her deposition transcript, I'll 5 Q. Do you know if Dr. Loretz testified 6 represent to you, is 1,133 pages in length. 6 regarding that review? 7 7 Did you read all that? A. If I have cited her, then I have. 8 8 A. No. I didn't agree that I read all of Q. Well, you didn't cite her on this 9 9 portion. That's why I'm asking about it. them either. Yeah. 10 A. I don't know. I mean, you're asking 10 Q. Okay. I was a little confused because I thought you had said, for hers, that you had all these different names. They're all -- if I 11 11 12 read the whole thing. 12 haven't cited her, then I haven't reviewed it. 13 A. No. I didn't say I had read -- you 13 Q. Okay. Have you heard of the Cosmetic 14 know, I have read the transcript, but it doesn't 14 Ingredient Review? mean that I read every, you know, precise word 15 15 A. Yes. 16 and precise --16 O. Sometimes referred to as CIR? 17 17 Q. Do you know what her background is? A. Yes. 18 A. No, I don't. 18 Q. Dr. Loretz, in her deposition, 19 Q. Do you know if she's a scientist? 19 references the CIR dozens of times, doesn't she? A. I don't remember, you know, the 20 20 A. Again, as I said, I didn't review the specifics of the transcript. 21 entirety of the thousand pages. 21 Q. Okay. I'm just trying to understand 22 Q. How is it that you picked out this 22 23 quote then on -- that's Footnote 1 or this 23 what you did review and you didn't. You wrote a 24 citation, Footnote 1, Page 7? 24 paragraph about the CIR. And I'm trying to A. Yeah. I mean, it's not even -- that's 25 understand why you didn't reference Dr. Loretz 25

when she testified about that. 2		Page 350		Page 352
2 M. So, as you can see, it's reference to the published report, and, you know, I reviewed again, even that was lengthy document, and, you know, I wanted to review that for for completeness and understand that. 7 Q. Did you read the entirety of that report? 8 report? 9 A. As much as I can. Not every word in every sentence. 10 every sentence. 11 Q. Okay. Do you know if the FDA plays a role in the CIR's review that you're referring to is a member or has some sort of role there. 12 O. Do you know who the Consumer Federation of America is? 13 on A. No. 14 A. No. 15 Q. Do you know wif they play any role in the CIR report? 15 Landri know. And maybe it's in the 23 study and I can't tell you offhand who is in this 24 panel. 15 Do you know that one of the missions of the 3 Consumer Federation of America is to represent consumers in connection with Cosmetic Ingredient Federation of America is to represent consumers in connection with Cosmetic Ingredient Federation of America is to represent consumers in connection with Cosmetic Ingredient Federation of America is to represent consumers in connection with Cosmetic Ingredient Expertise in carcinogenicity and epidemiology. 12 A. I don't know. And maybe it's in the 23 study and I can't tell you offhand who is in this 24 panel. 25 Q. It's also in Dr. Loretz's deposition. 26 A. Yea. I man aware of that. 27 Q. Okay. Do you know who was on the panel of the CIR review? 28 A. No. 19 A. No. 10 Q. Do you know who was on the panel of the CIR review? 29 A. No. 20 Q. Do you know who was on the panel of the CIR review? 21 A. I don't know Othat. 22 Q. Do you know who was on the panel? 23 A. Yea. I the Circ review? 24 Q. Oway. Do you know who was on the panel? 25 Q. Do you know who was on the panel? 26 A. Yea. I don't know. One way or another, whether they had the expertise in carcinogenity and epidemiology. 26 A. No. 27 A. Yeal. I mean, you know, some of the names that are here, they were dermatologists. 28 That's the reason I'm exploring it. 29 Do you kn	1		1	
the published report, and, you know, I treviewed – again, even that was lengthy document, and, you know, I wanted to review that for completeness and understand that. 7 Q. Did you read the entirety of that report? 9 A. As much as I can. Not every word in every sentence. 11 Q. Okay. Do you know if the FDA plays a role in the CIR's review that you're referring to 13 on Page 62 of your report? 14 A. I'm not aware of the specific 15 composition, but I know that FDA is – attends or 16 is a member or has some sort of role there. 17 Q. Do you know who the Consumer Federation 18 of America is? 19 A. No. 20 Q. Do you know who the Consumer Federation 18 of America is? 19 A. No. 21 Q. Do you know who the Consumer Federation 18 of America is? 22 A. I don't know. And maybe it's in the 23 study and I can't tell you offhand who is in this 24 panel. 25 Q. It's also in Dr. Loretz's deposition. Page 351 1 That's the reason I'm exploring it. 2 Do you know what one of the missions of the 3 Consumer Federation of America is to represent 4 consumer Federation of America is to represent 5 Reviews? 6 A. I'm not aware of that. 7 Q. Okay. Do you know who was on the panel 8 of the CIR review? 9 A. No. 10 Q. Okay. Do you know who was on the panel 9 of the CIR review? 10 A. Thou and a control in the co				
4 more diverse representation with gynecologists, oncologists, epidemiologists. 5 for completeness and understand that. 7 Q. Did you read the entirety of that report? 9 A. As much as I can. Not every word in every sentence. 10 Q. Okay. Do you know if the FDA plays a role in the CIRs review that you're referring to on Page 26 of your report? 14 A. I'm not aware of the specific is a member or has some sort of role there. 16 G. Do you know who the Consumer Federation of America is? 19 A. No. 20 Q. Do you know wif they play any role in of America is? 21 the CIR report? 22 A. I don't know. And maybe it's in the sast sudy and I can't tell you offhand who is in this panel. 23 study and I can't tell you offhand who is in this panel. 24 panel. 25 Q. It's also in Dr. Loretz's deposition. Page 351 That's the reason I'm exploring it. 2 Do you know that one of the missions of the Consumer Federation of America is to represent consumers in connection with Cosmetic Ingredient toxicologists, epidemiologists. 5 on I's not that it was a criticism of the CIR review panel or whoever was on that as a dematologist, to repidemiologists. 6 So it's not that it was a criticism of the CIR review panel or whoever was on that as a dematologist, to pridemiologists. 6 CIR review panel or whoever was on that as a dematologist, to pridemiologists. 15 (D. So you dnn't know, one way or another, whether they had the expertise in carcinogenicity and epidemiology. 16 (What do you base that on? 17 A. Yeah. I mean, you know, some of the anametra of the tree, they were dermatologists. 18 That's the reason I'm exploring it. 29 Do you know that one of the missions of the Consumer's inconnection with Cosmetic Ingredient to review whethe expertise in a demandal product of the product of t				
document, and, you know. I wanted to review that for completeness and understand that. Q. Did you read the entirety of that report? A. As much as I can. Not every word in every sentence. Q. Okay. Do you know if the FDA plays a role in the CIRs review that you're referring to on Page 62 of your report? A. I'm not aware of the study and I can't tell you offhand who is in this a manufacture of the CIR review? A. I'm not aware of the study and I can't tell you offhand who is in this a panel. That's the reason I'm exploring it. Do you know that one of the missions of the COnsumer Federation of the CIR review? A. I'm not aware of that. Consumers in connection with Cosmetic Ingredient Reviews? A. No. Page 351 That's the reason I'm exploring it. Do you know who the commer federation of the CIR review? A. I'm not aware of that. Q. Okay. Do you know who whether there were consumers in connection with Cosmetic Ingredient to ricities the panel makeup because it may be made and the capture of the CIR review and the work of the CIR review and the capture was not having the capability of doing the review. Page 351 That's the reason I'm exploring it. Do you know who whether there were consumers in connection with Cosmetic Ingredient to a review of cosmetics? A. No. Page 351 That's the reason I'm exploring it. O. Okay. Do you know who whether there were consumers in connection with Cosmetic Ingredient to a review of cosmetics? A. I don't know that. Q. Do you know whother there were consumers in connection with Cosmetic Ingredient to a review of cosmetics? A. Yeah. I mean, from my understanding, they didn't have expertise in carcinogenicity and epidemiology. A. Yeah. I mean, from my understanding. Q. Did you look them up and investigate what they do or what they have done in their careers? A. No. I have not. May PaREITT: Objection. Misstates his restimony. A. Yeah. It doesn't say – first of all, it's not a criticism. It just says, what is the composition of the panel. It say it was corrupted for the				· · · · · · · · · · · · · · · · · · ·
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7 CIR review panel or whoever was on that as a dermatologist, but specific to it, did they have the expertise to - and maybe they did, but I'm just pointing that out. 10 Q. Okay. Do you know if the FDA plays a role in the CIR's review that youre referring to on Page 62 of your report? 14 A. Tm not aware of the specific is a member or has some sort of role there. 16 Q. Do you know who the Consumer Federation of America is? 19 A. No. 20 Q. Do you know if they play any role in the CIR report? 21 the CIR report? 22 A. I don't know. And maybe it's in the 23 study and I can't tell you offhand who is in this panel. 23 study and I can't tell you offhand who is in this panel. 24 Do you know that one of the missions of the Consumer Federation of America is to represent consumers in connection with Cosmetic Ingredient Reviews? 25 A. Tm not aware of that. 26 A. Tm not aware of that. 27 Q. Okay. Do you know whether there were of the CIR review? 28 A. No. 29 A. No. 20 Q. Do you know whether there were of the CIR review? 20 A. No. 21 A. To not aware of the missions of the CIR review? 22 A. I don't know that one of the missions of the CIR review? 23 A. No. 24 Do you know whether there were otxicologists who were part of the panel? 25 A. Sure. 26 A. Yea. 27 CIR review panel or whoever was on that as a dermatologist, but specific to it, did they did, but I'm just pointing that out. 28 demratologist, but specific to it, did they did, but I'm just pointing that out. 29 A. Yeah. I mean, from my understanding, they didn't have expertise in carcinogenicity and epidemiology. 20 Q. What do you base that on? 21 A. Yeah. I mean, from my understanding. 22 A. No. I have not. 23 A. No. I have not. 24 Wat they do or what they have done in their careers? 25 MS. PARFITT: Objection. Misstates his testimony. 26 MS. PARFITT: Objection. Misstates his testimony. 27 A. Yeah. I mean, from my understanding. 28 A. No. I have not. 29 A. No. I have not. 30 Q. Okay. So you're criticizing them as not having the capabilit				
## Report? A. As much as I can. Not every word in cery sentence. Q. Okay. Do you know if the FDA plays a role in the CIR's review that you're referring to a name page 62 of your report? A. Tm not aware of the specific composition, but I know that FDA is — attends or is a member or has some sort of role there. D. Do you know who the Consumer Federation of the CIR report? A. No. Do Q. Do you know if they play any role in the CIR report? A. I don't know. And maybe it's in the study and I can't tell you offhand who is in this panel. Do you know that one of the missions of the Consumer Federation of the CIR review? A. No. In mor aware of that. Q. Okay. Do you know who was on the panel of the CIR review? A. No. In mor aware of that. Q. Okay. Do you know whether there were composed of, you know, expertise in end maybe they did, but I'm you step time the expertise to — and maybe they did, but I'm you step time the expertise to — and maybe they did, but I'm you step time the expertise? A. Yeah. I mean, from my understanding, they didn't have expertise in carcinogenicity and epidemiology. A. Yeah. I mean, from my understanding, they didn't have expertise in carcinogenicity and epidemiology. A. Yeah. I mean, from my understanding, they didn't have expertise in carcinogenicity and epidemiology. D. Did you look them up and investigate what they do or what they have done in their careers? A. No. I have not. D. Do you know that one of the missions of the consumers in connection with Cosmetic Ingredient Reviews? A. No. I have not. D. Okay. So you're criticizing them as not having the capability of doing the review. Page 351 That's the reason I'm exploring it. Do you know who were part of the panel? A. No. I have not. A. Yeah. I mean, from my understanding, they didn't have expertise in carcinogenicity and epidemiology. A. No. I have not. D. Okay. So you're criticizing them as not having the capability of doing the review. MS. PARFITT: Objection. Misstates his testimony. A. Yeah. I dem'they have been		*		
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10 Q. Do you know whether there were 11 toxicologists who were part of the panel? 12 A. I don't know that. 13 Q. You criticize the panel makeup because 14 it was "primarily composed of dermatologists." 15 A. Sure. 16 Q. Do you see that? 17 A. Yes. 18 Q. Do you know why dermatologists would be 19 relevant to a review of cosmetics? 20 A. Yes. I mean, yeah. But, of course, 21 and clinical studies on talc that did not contain 22 applied on the skin. Yeah. It would be 23 all of the epidemiological studies that were 24 all of the epidemiological studies that were 25 devaluated by that panel. 26 avaluated by that panel. 27 Q. Okay. One of the things that you 28 asay 29 A. Sure. 20 A. Sure. 21 and clinical studies on talc that did not contain 29 asbestos. 20 A. Yeah. 21 Q. You would agree that the CIR reviewed 21 all of the epidemiological studies that were	8		8	· ·
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13		• • • • • • • • • • • • • • • • • • • •		
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22 applied on the skin. Yeah. It would be 22 all of the epidemiological studies that were	20			
				=
23 relevant. 23 available at that time; correct?		applied on the skin. Yeah. It would be		
		relevant.		available at that time; correct?
Q. So they would be relevant to a CIR 24 MS. PARFITT: Objection. Misstates	24			MS. PARFITT: Objection. Misstates
25 review? 25 testimony.	25	review?	25	testimony.

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1 A. I don't know -- you know, I know that 2 they reviewed the process and they looked at 3 studies, and I don't know if it was all epidemiologic studies, but I think and I

4 5 understand that presumption was that talc does 6 not contain asbestos. I mean, that's what -- the

7 premise they started out with. 8

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Q. Well, did the epidemiologic studies make a distinction between talc and its constituents or alleged constituents?

A. Yeah. I mean, there are -- as I cite in my report, there are -- they don't make distinctions, but they -- some of the studies -you know, some of the testimony we've discussed, some of the, you know, testing we've discussed, and some, you know, small publications suggest that talc may contain asbestos. So you have these evidence.

But the CIR review was already carried out with the presumption that talc did not contain asbestos.

22 Q. But they reviewed all of those studies 23 that you referenced, or do you not know what they 24 reviewed?

MS. PARFITT: Objection.

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Page 357

they asked -- this statement is about the question they asked. They asked the question, that talc fiber not containing asbestos, does it

So if they ask the question already, we know that, they presume there was no presence of. So it's about the question that I'm stating it.

- Q. But the epidemiologic studies, when they're analyzing talc use among women, they're not making a distinction between talc that contains or doesn't contain constituents. They're talking about women who use products; correct?
 - A. That is correct.
- Q. So if your theory is correct and talc contains harmful substances in addition to talc, then the epidemiologic studies would have reviewed women's exposure to those constituents; correct?

A. Yeah. So, I mean -- so if you look at what I've written, the review was carried out under the flawed assumption that cosmetic grade, you know, talc was -- did not contain that. And also limited to talc that did not contain. And also concluded that there was no evidence of talc

Page 355

A. I mean, I do not know every study they reviewed. I'm just providing -- I don't know every study that IARC reviewed.

Q. Well, you could find that out by looking at the studies; right?

A. There's not enough time. There's so many studies in this and so many reports, so many assessments that --

- Q. But you're criticizing the CIR.
- 10
- 11 Q. And saying it limited its assessment.
- 12 A. Sure.
- 13 Q. And I just want to understand the basis for that statement, and what you're saying, 14

testifying here today is you don't know what the 15 16

CIR reviewed.

17 MS. PARFITT: Objection. Misstates 18

- 19 A. No. That, and we can look at it.
- 20 Let's look at the, you know, the --
- Q. But you made the statement. 21
- 22 A. Sure.
- 23 Q. And I'm asking you, sitting here today,
- 24 can you say what they reviewed?
- 25 A. Yes. I know they reviewed -- because

migration.

I do not say that, you know, there was no -they did not review the -- the epidemiologic studies of talcum powder products. That's not -you know, they reviewed it. But I'm just pointing out the limitations of that.

Q. Didn't CIR cite the very same studies that were available as of 2013 that you cite in your report?

A. Yes.

MS. PARFITT: Objection. Form.

A. Again, you know, I don't know if they cite evidence of biologic plausibility. I don't know if they cite evidence of talc migration. I don't know how they interpreted the evidence of -- just because they cited a study does not mean that they interpreted the data in the same way that I did.

So I don't know what studies specifically in each section they cited.

Q. Okay. One of the things that you say, "as a result of these serious methodological shortcomings and funding biases." Let me ask you about that.

A. Sure.

90 (Pages 354 to 357)

25

in fact, not even scientists, but now we have

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PageID: 211771

Sonal Singh, M.D., M.P.H.

Page 358 Page 360 Q. Is a review that's funded by an entity 1 regulatory agency in late 2018. So things take 2 2 time. And, you know, people, scientists take with an interest in the outcome of that review 3 3 inherently flawed? time to come to conclusions. 4 A. No. It isn't. And this is just, you 4 Q. Okay. Let's go to Exhibit 22. 5 5 know, one of -- and, you know, it's a potential. A. Which is? 6 It should be potential for funding biases. It 6 Q. That's the Berge -- I believe that's 7 7 doesn't mean that just because it was funded by how it's pronounced -- report? 8 PCPC or CIR, it is, you know, biased. 8 MS. PARFITT: The Berge study? 9 MR. LOCKE: Yes, yes. I'm sorry. 9 But yes, I mean, so, for example, my report 10 and testimony, because it's funded by, you know, 10 BY MR. LOCKE: 11 should be examined for potential biases. Just 11 Q. So if you could turn to Page 9, can you like, you know, CIR's report should be. 12 read the last sentence right before 12 acknowledgments, beginning with the word 13 Q. I want to ask you about the timing of 13 14 things, because sometimes you have referred to 14 "several." If you could read it out loud, 15 reports that were done a while ago. And in this 15 please. 16 case, you do that with CIR. You say, "The 16 A. "Several aspects of our own results, 17 findings of this panel have been superseded by 17 including the heterogeneity between case-control several new epidemiologic studies," and so forth. studies and the lack of dose-response with 18 18 duration of and frequency of use, however, do not 19 The line goes on. 19 20 Is it your opinion that -- well, let me ask 20 support a causal interpretation of the 21 this way: At what point in time can we say that 21 association." 22 the epidemiologic studies have sort of been 22 Q. And they're referring to the completed so you could rely on that information? 23 23 association between talc and ovarian cancer? 24 MS. PARFITT: Objection. Form. 24 A. Yes. But other scientists, you know, 2.5 A. Yeah. I mean, so you rely on 25 such as Penninkilampi, have concluded otherwise, Page 359 Page 361 1 1 that there is, you know, suggestive of a causal information from, what, 1982, Cramer one. But I 2 2 guess the question is -- I don't know, I'm not association. Health Canada has concluded 3 trying to put questions in your mouth. But I 3 otherwise, that there's evidence of causal 4 don't -- I can't -- because I evaluated the 4 association. 5 causal question as of 2017 and didn't arrive at 5 Q. But here we are in 2018, there's a 6 an opinion until late 2018. 6 study that's published saying, "Does not support 7 I did not go year by year and, say, okay, in 7 a causal interpretation of the association 8 8 2005, when IARC looked at this, could we have between talc and ovarian cancer"; correct? 9 concluded, possible, a problem? In 2010, when 9 A. Yes. I mean, you know --10 Langseth looked, or 2015. 10 Q. Let me just ask you: So scientists 11 So I did not segmentate it by time. And disagree about this issue? 11 12 you're just asking, even by epidemiologic study. 12 A. That's why we are here. If we all 13 It doesn't work. You have to look at the whole 13 agreed, we wouldn't be here. 14 body of evidence and come to a conclusion. 14 Q. Okay. Let me move to a different Q. Isn't it true that, prior to the talc 15 15 topic. litigation, no scientist had published an article 16 16 MR. TISI: How much time do we have? 17 stating that talc causes ovarian cancer? How much time do we have? That's okay. Just 17 18 MS. PARFITT: Objection to form. 18 write it on a paper. 19 A. Yeah. I mean, you know, I think a lot 19 MR. LOCKE: We're getting close. Q. Okay. Can we go to Page 62 of your 20 of these articles have talked about -- and 20 21 scientists don't necessarily publish statements 21 report. Now, did we already do that? Maybe we 22 about causation, you know. 22 23 You have seen that Health Canada has clearly already did that. Sorry. I don't want to have 23 24 stated that talc causes ovarian cancer. Yes, so, 24 to do things again.

25

A. Please don't.

	2.00		264
	Page 362		Page 364
1	THE VIDEOGRAPHER: 6:36.	1	don't know about the specifics, who are
2	THE WITNESS: So we have 6 minutes, 36	2	manufacturers and yeah. But I know the
3	seconds?	3	limitations of the survey.
4	Q. You have 24 minutes.	4	And even they acknowledge that the study
5	A. Oh, sorry.	5	could not prove that most or all talc-containing
6	Q. Sorry. We already did that one. So	6	cosmetic products currently marketed are likely
7	good there.	7	to be free. So even despite these whoever
8	Let's go to Page 15 of your report. We were	8	supplied them and whoever, you know, tested them.
9	talking just a moment ago about regulatory	9	MR. LOCKE: We're almost there. Then
10	entities and what they found.	10	I'll turn it back over.
11	In the middle of that paragraph or middle of	11	BY MR. LOCKE:
12	that page, there's a part that says, "Although	12	Q. Just one second. If you could go to
13	the FDA conducted a survey."	13	Page 59, please. Okay.
14	Do you see that?	14	On Page 59, you've got a Roman numeral X
15	A. Yes.	15	followed by a Roman Numeral III. Do you see
16	Q. And they found no asbestos fibers or	16	that? Talcum powder-induced inflammation. Am I
17	structures.	17	at the right place?
18	But then you, whatever you want to call it,	18	MS. PARFITT: I'm sorry, Tom.
19	you can call it criticism or deficiencies or	19	MR. TISI: 59 of the report?
20	disadvantages, you state, "The results were	20	MR. LOCKE: Yeah.
21	limited, only four out of nine talc suppliers	21	A. It's probably 58.
22	submitted samples, and the number of products	22	Q. 58 of the report. Sorry.
23	tested was low." Is that correct?	23	MS. PARFITT: No worries.
24	A. Well, that is a correct restatement of	24	Q. Okay. So you see that, Roman numeral
25	the facts. So it is not something that I made	25	X, Roman Numeral III?
	-	23	
	Page 363		Page 365
1	up. I mean, it is true that four out of nine	1	A. Have we gone through this? I'll be
2	suppliers	2	happy to go through it again.
3	Q. J&J was one of the entities that	3	Q. I want to ask you about something.
4	supplied talc to the FDA; correct?	4	A. Sure.
5	A. I didn't you know I didn't	5	Q. You have a statement, the first
6	that FDA document, you know, I'm not aware of who	6	sentence says, "Inflammation has long been
7	supplied.	7	understood to be an important mechanism
8	Q. You didn't look at it. You criticized,	8	underlying the development of ovarian cancer."
9	but you didn't look at the fact that J&J	9	Do you see that?
10	submitted talc samples and product to the FDA?	10	A. Yes.
11	MS. PARFITT: Objection. Misstates his	11	Q. And then you referenced 61. And if you
12	testimony.	12	go to Exhibit 4, that is your list of references;
13	A. I reviewed the reference and I reviewed	13	correct?
14	the you know, so I'm not testifying I reviewed	14	Well, for me, I was looking at it, because
15	talcum powder products and ovarian cancer. You	15	it was broken out separately. But you could see
16	know, and I was looking at the evidence. But I	16	it at the back of Exhibit 10 as well.
17	didn't look at whether J&J submitted samples or	17	A. Yeah.
18	Imerys submitted samples, no.	18	Q. Do you see that, 61?
19	Q. And you don't know whether, then, the	19	A. Yeah.
20	FDA, in fact, tested the two J&J products at	20	Q. And if you can you read the title of
21	issue in this litigation and found no asbestos	21	the reference that you're citing to there?
22	fibers or structures in the samples?	22	A. The Ness study, is that?
23	MS. PARFITT: Objection. Misstates the	23	
	-		Q. Right. The Ness study.
24	survey.	24	A. Possible Risk of Ovarian in Cancer.
25	A. I don't know I don't you know, I	25	Q. It's "Possible Role of Ovarian

	Page 366		Page 368
1	Epithelial Inflammation in Ovarian Cancer."	1	
2	Now, you're citing that for "long been	_	ERRATA
3	understood to be an important mechanism," but, in	2	
4	fact, the first word in the title is "possible."	3	PAGE LINE CHANGE
5	A. Yeah. And you can clarify that. I	4	
6	mean, this is about plausible mechanisms.	5	REASON:
7	Q. But it certainly doesn't say it's long	6	
8	been understood to be an important mechanism.	7	REASON:
9	A. Well, I disagree. I mean, you know,	8	
10	maybe that you can't cite all the articles for	9	REASON:
11	each statement you make. I wish I did.	10	
12	But inflammation, as I understand it, is an	11	REASON:
13	important mechanism. And at least has been known	12	DE AGON
14	for a long time about ovarian cancer. And others	13	REASON:
15	can opine in more detail. Is that citation the	14 15	DE A COM.
16	most? Yeah, that particular citation has a	16	REASON:
17	possible, you know, clarifier on that.	17	REASON:
18	MR. LOCKE: Okay. Let me just see if	18	
19	I've got anything else here. That's all I have.	19	REASON:
20	THE WITNESS: Thank you.	20	NEA 19011.
21	MR. LOCKE: Thank you. Anyone else?	21	REASON:
22	MS. PARFITT: Let's take a quick break	22	
23	and see if we have any follow-up.	23	REASON:
24	THE VIDEOGRAPHER: Off the record,	24	
25	5:13 p.m.	25	REASON:
	Page 367		
1	(A recess was taken.)	1	ACKNOWLEDGMENT OF DEPONENT
2	THE VIDEOGRAPHER: Back on the record,	2	
3	5:26 p.m.	3	I,, do hereby certify that I have read the
4	MS. PARFITT: Thank you. Dr. Singh,	,	foregoing pages, and that the same
5	the plaintiffs have no questions. I want to	4	is a correct transcription of the answers
6	thank you for your time today.	5	given by me to the questions therein propounded, except for the corrections or
7	We would ask that Dr. Singh read and		changes in form or substance, if any,
8	sign.	6 7	noted in the attached Errata Sheet.
9	MR. ZELLERS: Thank you, Doctor.	/	
10	THE WITNESS: Thank you.	8	SONAL SINGH, M.D., M.P.H. DATE
11	MR. KLATT: Wait. I've got 30 seconds.	9 10	
12	THE WITNESS: I want to thank everybody	11	
13	for a very professional, you know I've done	12	
14	this a couple of times. And if I have raised my	13 14	
15	voice, it hasn't been anything personal. It's		Subscribed and sworn
16	just been trying to explain something.	15	to before me this
17	MR. ZELLERS: Thank you, Doctor.	16	day of, 20
18	THE VIDEOGRAPHER: And we're off the	1.5	My commission expires:
19	record at 5:27 p.m.	17 18	
20	(Deposition concluded at 5:27 p.m.)		Notary Public
21		19 20	
22		21	
23		22 23	
24		23 24	
25		25	

1	CERTIFICATE	
2	COMMONWEALTH OF MASSACHUSETTS	
3	SUFFOLK, SS.	
4	I, Janet M. Sambataro, a Registered Merit	
5	Reporter and a Notary Public within and for the	
6	Commonwealth of Massachusetts do hereby certify:	
7	THAT SONAL SINGH, M.D., M.P.H., the witness	
8	whose testimony is hereinbefore set forth, was duly	
9	sworn by me and that such testimony is a true and	
10	accurate record of my stenotype notes taken in the	
11	foregoing matter, to the best of my knowledge, skill	
12	and ability; that before completion of the deposition	
13	review of the transcript was requested.	
14	I further certify that I am not related to any	
15	parties to this action by blood or marriage; and that	
16	I am in no way interested in the outcome of this	
17	matter.	
18	IN WITNESS WHEREOF, I have hereunto set my hand	
19	this 17th day of January, 2019.	
20		
21		
	JANET M. SAMBATARO	
22	Notary Public	
	My Commission Expires:	
23	July 16, 2021	
24		
25		
		4

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